

AD-A168 759 DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS LAB HANSCOM AFB MA D J KNECHT 08 JAN 85 1/5

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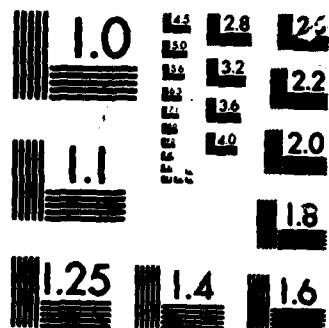
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AD-A168 759

Daily Magnetograms for 1978 From the AFGL Network

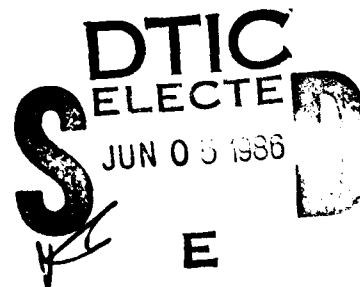
DAVID J. KNECHT



8 January 1985



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SPACE PHYSICS DIVISION

PROJECT 7601


AIR FORCE GEOPHYSICS LABORATORY

HANSCOM AFB, MA 01731

86 5 29 153

"This technical report has been reviewed and is approved for publication"

FOR THE COMMANDER


IRVING MICHAEL, Acting Chief
Space Plasmas and Fields Branch


RITA C. SAGELY, Director
Space Physics Division

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<p>A stacked plot of 24-hour magnetograms from the AFGL Magnetometer Network is presented for each UT day of the year 1978. Each plot, on a single page, contains all 21 traces from the fluxgate magnetometers of the network (three components at seven stations). This data plotted are 2-min averages of the 1-min edited data set that has been provided to the World Data Center. To aid in comparison between days, the magnetograms are plotted with a fixed amplitude scale that preserves a resolution of one or two nanoteslas. For the 10 percent of all days that are more active, the plots have been repeated at a reduced amplitude. These magnetograms serve to assess the general character of magnetic activity, identify events for scientific study, and indicate the coverage and quality of the data available from the World Data Center.</p>						
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Preface

This volume of magnetograms from the AFGL Magnetometer Network is the first in what is intended to be a set of six yearly volumes covering the years 1978 through 1983. Descriptive material needed to explain the magnetograms is repeated so each volume can be used independently.

These volumes are dedicated to the memory of Robert W. Crowe, who as a high-school student, carried out much of the computer work that produced the edited data shown in these plots and who lost his life in October 1982 while the work was under way.

Many other persons have also contributed greatly to this effort. The project, which required reading more than 1200 input data tapes, writing more than 4500 edited-data tapes, and making and assembling more than 6500 separate plots for these volumes, was made possible by the dedicated efforts of a group of college and high-school students. Armand Paboojian supervised and personally undertook much of the production of the edited data base. Ric Laperriere, Stephen Morris, Catherine Whittaker, Glenn Ellis, and Ara Topjian also contributed many hours to this work. Fr. John F. Devane, S.J., directed the contractual effort of Boston College under which most of the students worked. Ric Laperriere carried out a large fraction of the production runs that produced the final plots. These generous contributions are gratefully acknowledged.

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Daily Magnetograms for 1978 From the AFGL Network

I. INTRODUCTION

From mid-1976 through 1983, the AFGL Magnetometer Network made continuous measurements of the surface magnetic field at seven stations spanning the contiguous United States. An edited data base has been produced for the period 1979-1983; it consists of three-component measurements of the field at the seven network stations by fluxgate magnetometers sampled once per second. A subset of these data, consisting of 1-min average values in the standard IMS format, is available to the scientific community through the World Data Center.

This report, one of a series of yearly volumes, presents the 1-min subset of data for the year 1978 in the form of stacked daily magnetograms, one day per page. The anticipated uses of these plots include: (1) discovering the overall pattern of magnetic activity across the United States for any day, (2) identifying events for scientific study, and (3) indicating the coverage and quality of the data available from the World Data Center.

For the basic set of 365 daily plots, the question of amplitude scale was resolved in favor of a constant value for all plots to facilitate comparison when scanning over many pages. However, for about 10 percent of all days this choice causes traces to be offscale or confused, so for these days the plot is repeated on a less sensitive scale in a subsequent section of supplemental plots.

(Received for publication 7 January 1985)

2. DESCRIPTION OF THE NETWORK

The AFGL Magnetometer Network consisted of seven remote instrumented stations at the locations shown in Figure 1 and listed in Table 1. The five northern stations form a line at approximately 55 degrees cgm latitude, while the two southern stations are both at about 40 degrees cgm latitude.

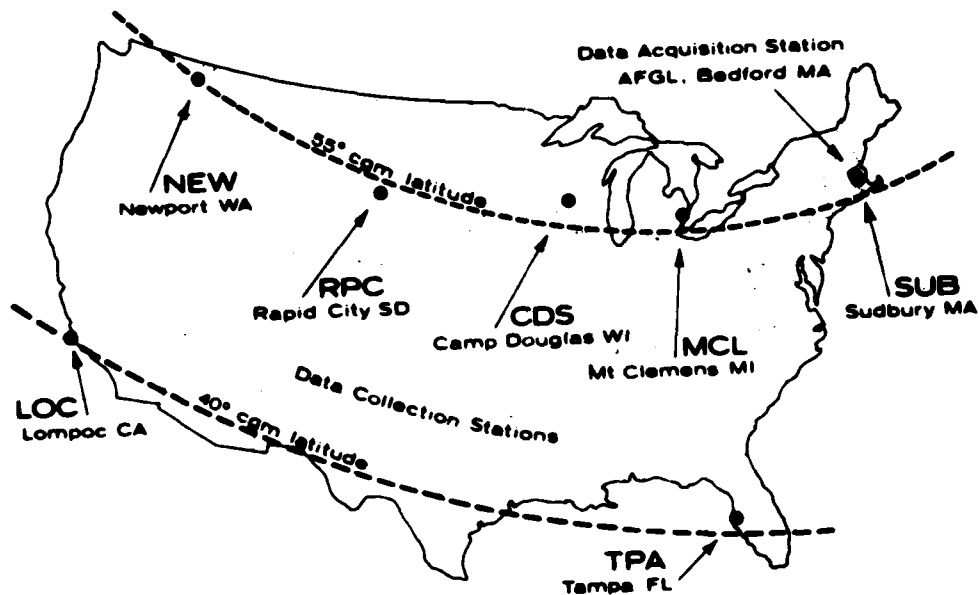


Figure 1. Map of the AFGL Magnetometer Network

The instrumentation at all sites was essentially identical. The instrument which made the measurements presented here is a three-component fluxgate magnetometer built by the University of California at Los Angeles. (Data from a second instrument, an induction-coil magnetometer, is not discussed.) The fluxgate magnetometer has a basic analog (fine-scale) range of -64 to +64 nanoteslas; it is kept onscale by applying to the sensor a precise (coarse-scale) nulling field of an integral multiple of 64 nT to cover the full range of approximately -65,000 to +65,000 nT. The fine-scale output is digitized by an 11-bit analog-to-digital converter, with the least significant bit representing 1/16 nT. The instrument was sampled once per second.

Data from all stations were returned to a data-acquisition station at AFGL via a single dedicated voice-grade circuit made up largely of ordinary phone lines and having a branch to each of the stations. A polling signal sent from the

data-acquisition station synchronized all stations to within several milliseconds accuracy by incorporating compensation for propagation delays. Data collected at each station during any 10-sec sampling interval were transmitted in a block at some point during the next interval. A forward-error-correcting scheme was used to eliminate transmission errors. Data were received, compressed, formatted, and archived on magnetic tape by a dedicated minicomputer. Subsequently, several series of edited-data tapes were produced from the archive tapes, using the same minicomputer, as described in the following section.

Table 1. Locations of the Data-Collection Stations

Station Symbol and Name (post office)	Corrected Geomagnetic Coordinates		Graphic Coordinates		Government Installation
	N Lat	E Long	N Lat	E Long	
NEW Newport WA	55.2	299.6	48.3	117.1	USGS Newport Observatory
RPC Rapid City SD	54.1	317.3	44.2	103.1	Ellsworth Air Force Base
CDS Camp Douglas WI	56.3	334.2	44.0	90.3	Volk Field (Natl. Guard Base)
MCL Mount Clemens MI	55.8	344.8	42.6	82.9	Selfridge Air Natl. Guard Base
SUB Sudbury MA	55.8	1.9	42.2	71.3	Army Natick Laboratory Annex
LOC Lompoc CA	40.2	300.6	34.7	120.6	Vandenberg Air Force Base
TPA Tampa FL	40.7	344.9	27.8	82.5	MacDill Air Force Base

3. EDITING OF THE DATA

The content of the archive data tapes is the series of successive data transmissions, recorded with minimal processing at the time of reception. These raw tapes are somewhat inconvenient for general use, since they reflect network malfunctions of many kinds, include other scientific and housekeeping data, and use a complex format for economy. An edited version, containing only the fluxgate measurements, was desired, and an automated procedure for processing these tapes was developed.

The editing process was designed to correct for a number of errors likely (and often known) to occur in the data because of various equipment malfunctions. The basis for detecting and assessing the errors was a set of redundancy and consistency checks built into or inherent in the data. The faults corrected (in most cases by

discarding the faulty data) included: (1) magnetometer outputs differing from a nominal quiet-time value by more than 2048 nT, (2) transmissions not confirmed to have come from the correct station, and (3) incorrect time values associated with transmissions. At the same time, the data were organized by time interval, station, and component, with missing data filled with blanks.

It may be noted that the faults addressed in editing are almost exclusively those of the collection and transmission system; the only criterion placed on the magnetometer output was that it be reasonably close to an expected value. One reason for this is that rigorous criteria for assessing the correctness of the magnetometer data are so lacking that an automated procedure is not possible. But another reason is that, for many purposes, the usefulness of the data is only slightly (or not at all) diminished by the most common malfunctions. Therefore, most failures experienced with the magnetometers are still reflected in the edited data. Since the stations were unattended, a number of days often elapsed before a malfunction was corrected, and caution is necessary in using these data. Some specific guidance is provided in Section 6 below.

4. DESCRIPTION OF THE PLOTS

The basic set of plots is presented in Section 7. It includes, for each day of the year, daily magnetograms for all three components of the seven network stations, a total of 21 traces. These are grouped into three panels by component, in the order X, Y, Z from top to bottom of the page, where X is magnetic north, Y is magnetic east, and Z is vertically downward. This alignment was only approximate, and during the early years X and Y were often rotated slightly about Z to keep the Y component slightly positive. To facilitate comparisons between adjacent stations, the traces within each panel are further ordered by plotting the 55-degree stations first, west to east, followed by the two 40-degree stations, west to east.

For the basic set of plots a common fixed amplitude scale was selected for ease in comparing between days. The value 40 nT per major division was chosen because it kept about 90 percent of the plots onscale. A major division is the distance between the dotted baselines for adjacent traces. One minor division represents 10 nT, and a resolution of about one or two nT is preserved in the traces. For active days on which the traces go offscale or become confused by overlap, a supplementary set of plots, using a scale of 160 or 400 nT per major division is presented in Section 8. A small solid triangle following the date on the basic plot in Section 7 indicates that a supplementary plot has been provided.

Each trace is labeled at the left with a three-letter station code. Its absolute calibration is provided by the corresponding value (in nT) of the horizontal dotted

baseline. This value, appearing just below the station code, is the 24-hour mean of the data plotted, rounded to the nearest nanotesla. The station code and baseline value are omitted whenever all data points in a trace are blanks or, very rarely, when a badly malfunctioning trace has been eliminated to avoid obscuring good traces. The presence of the label usually (but not reliably) indicate that the trace is not completely blank.

The time scale covers the 24-hour UT day, with 1-hour and 10-min subdivisions. The edited data base consists of one value per minute (good datum or blank) for each of the 21 traces, but since this sampling rate exceeds the resolution possible on the page, 2-min averages were plotted instead. This results in 720 points per day, and since the full-scale length of the time axis is roughly 144 mm, the point-to-point spacing is about 0.2 mm (0.008 in.).

The date is printed at the lower left corner of each plot, first in the form day-of-month, month, year. It is repeated, in parentheses, in the form year (followed by a period) and day-of-year. As noted above, a solid triangle after the final parenthesis indicates the presence of a supplementary plot in Section 8.

5. METHOD OF PRODUCING THE PLOTS

The plots were generated by the network minicomputer (Varian model V72, vintage 1972) with 7-track tape units to read input data. The automated plot program was written in FORTRAN and incorporated Varian Dataplot software. The output device was a Tektronix type 4014 terminal equipped with a type 4631 hardcopy unit. With this equipment the plot is first drawn by an electron beam on the screen of the CRT (a storage device) and then copied to the hardcopy unit by a second beam which scans the screen; a third beam in the hardcopy unit writes the plot onto a dry-silver heat-developed paper. The three panels for each day of data were produced separately and then trimmed and taped together by hand, using overlapping registration marks for alignment. Since the image on the dry-silver paper deteriorates rapidly, the assembled plots were then copied, with a reduction to 74 percent of original size, on an IBM series III model 20 photocopier. These copies were furnished for the printer to use without further reduction.

The linearity and accuracy afforded by this method is sufficient for most purposes but does not equal that achievable by producing all three panels at once on a good electrostatic plotter and photoreducing the plots in the printshop. Some care may therefore be necessary in attempting precise measurements from these plots.

6. CAUTIONS ABOUT USE OF THE PLOTS

The following brief comment on some common faults in the data may be useful. Examples are given by a reference in parentheses to a plot which exhibits the particular fault described.

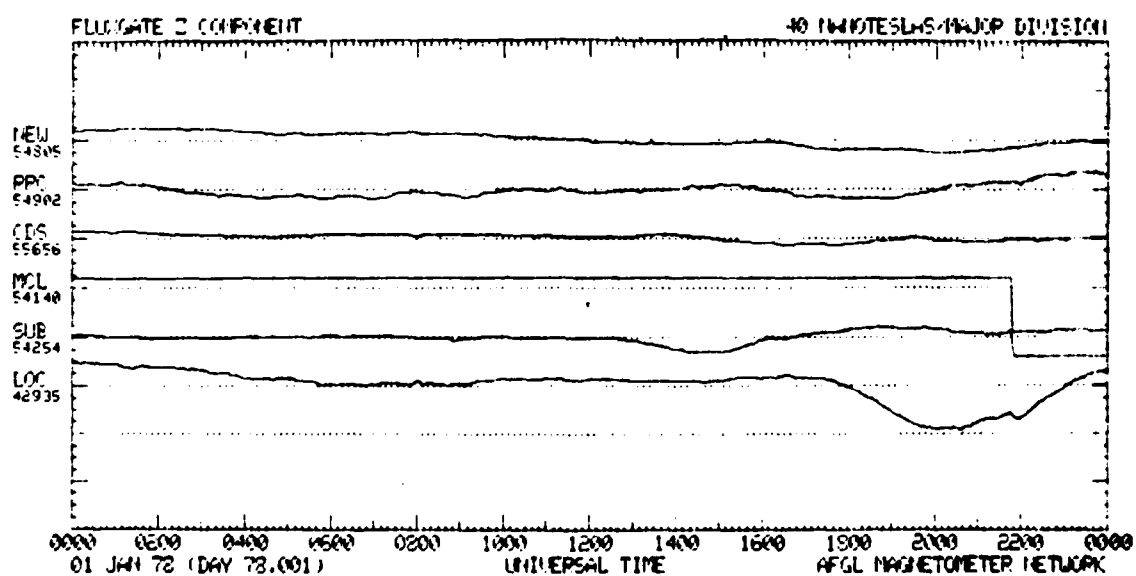
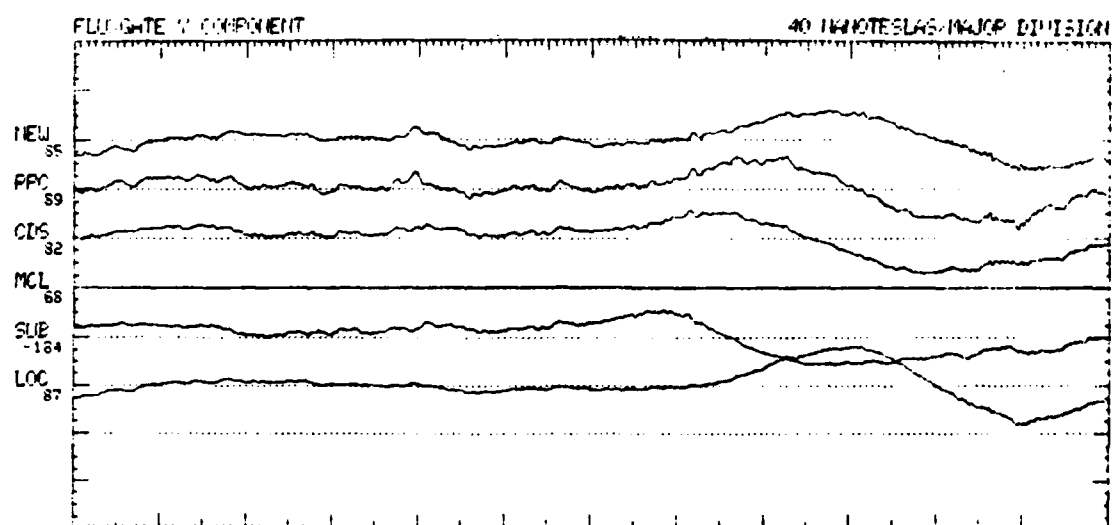
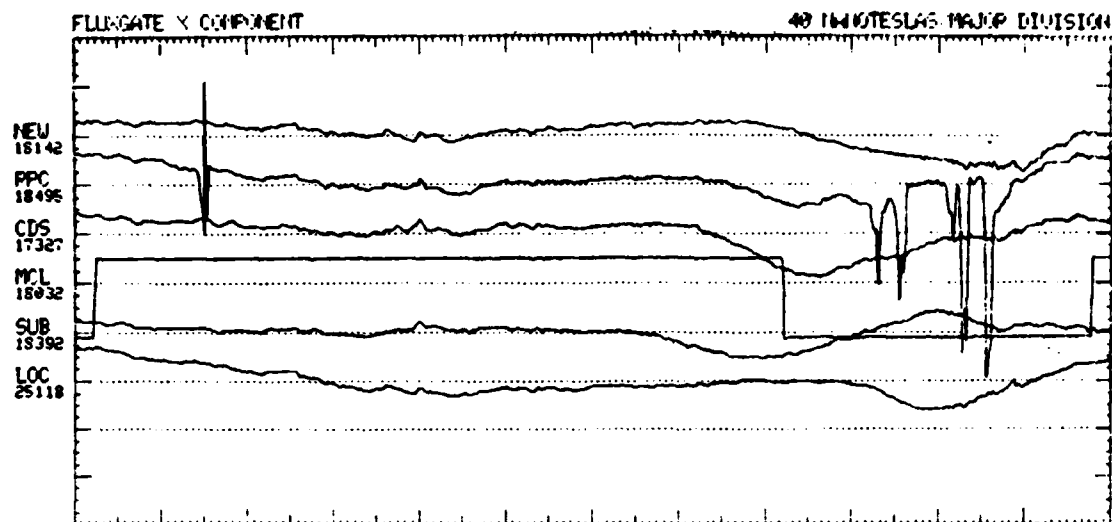
Two problems were caused by the plotting equipment: (1) some trace labels are occasionally shifted into the middle of a panel, to the right of their proper location (08 April). This problem was ignored because it was not easy to cure and caused no serious harm. (2) The least significant digit of the baseline value for a trace is occasionally omitted (LOC-X trace, 10 April). Since baseline values are all right-justified, the absence of the final digit can be seen, but the value will be uncertain by 5 nT. Again, the harm caused was not enough to justify the cost of solving it.

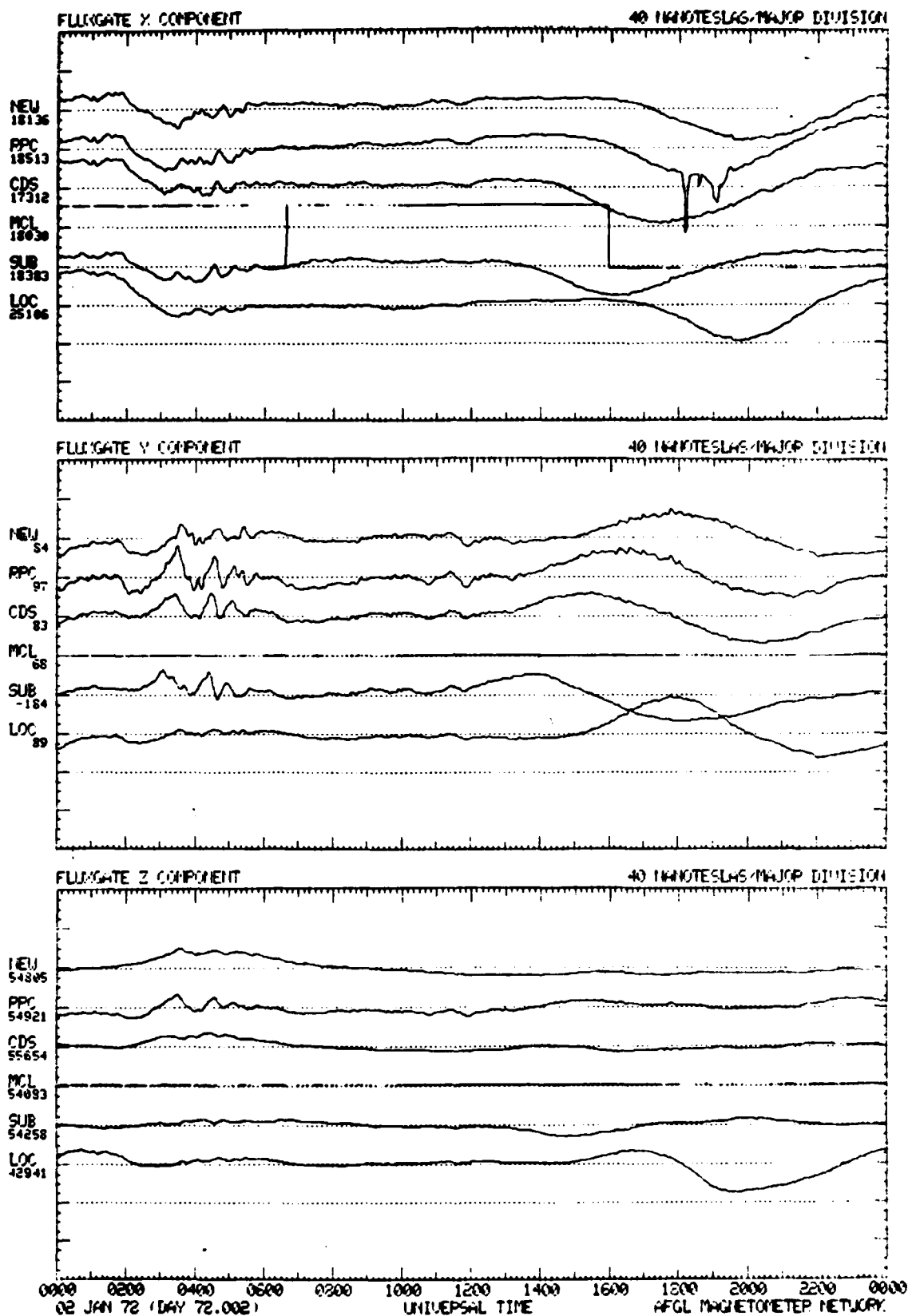
As noted earlier, data from malfunctioning magnetometers were not excluded unless they differed greatly from expected values. Usually the integrity of the data can be adequately assessed by comparing any trace with those of adjacent stations and by observing its behavior over an extended interval. Five common malfunctions are these: (1) an instrument which does not change range properly may exhibit sudden positive or negative jumps of 64 nT, the amount of one coarse-scale step (CDS-X trace, 12 March). (2) Some failures, such as a data-system bit that fails to turn on or off, cause smaller jumps (note jumps of about 16 nT in the TPA-Y trace, 15-21 March). (3) Some failures cause a trace to exhibit noise which may be large (SUB traces, 09 March) or small (MCL-Z trace, 10 May). (4) Failure of the fine-scale output causes a trace to show no activity except on occasional range-change jump of 64 nT (SUB-Z trace, 26-27 February). (5) Failure of the temperature-compensating circuitry makes the output very dependent on electronics temperature; the trace will then reflect the regular cycles of the thermostatically controlled trailer temperature (CDS-X trace, 22-23 January). (6) Other severe malfunctions can cause wild drifting (TPA-X, 20-21 April), large noise spikes (MCL traces, 13 June), or bursts (TPA-Z, 04 June). All these faults can normally be detected in the context of the stacked plots.

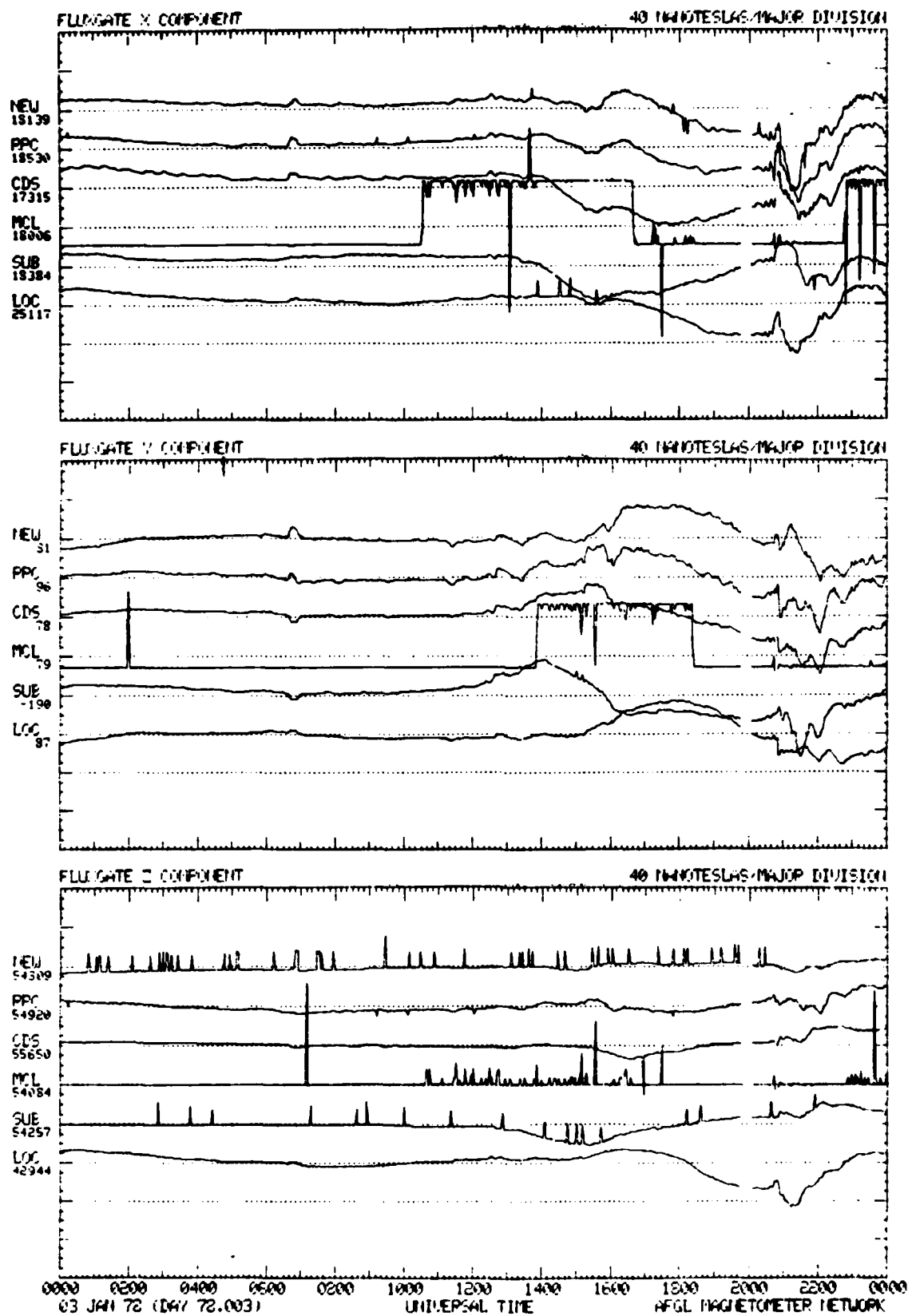
The data for most of January and February 1978 are a special case. Malfunction of the data-reception system during this period was so severe that the normal editing procedure discarded almost all data. Special techniques were therefore employed to salvage as much information as possible, but the resulting data are of very poor quality, as evidenced by the plots.

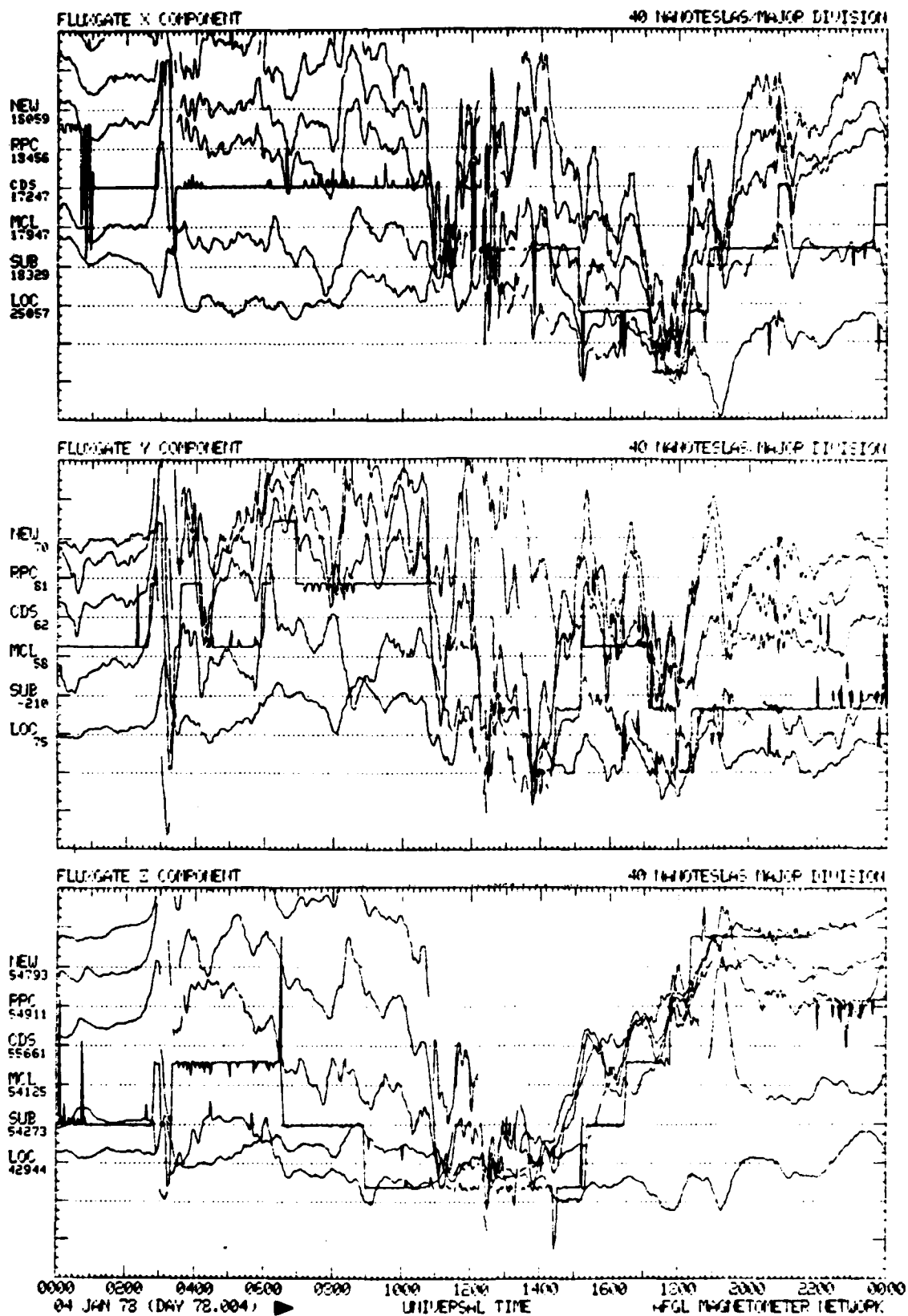
7. BASIC PLOTS AT STANDARD AMPLITUDE

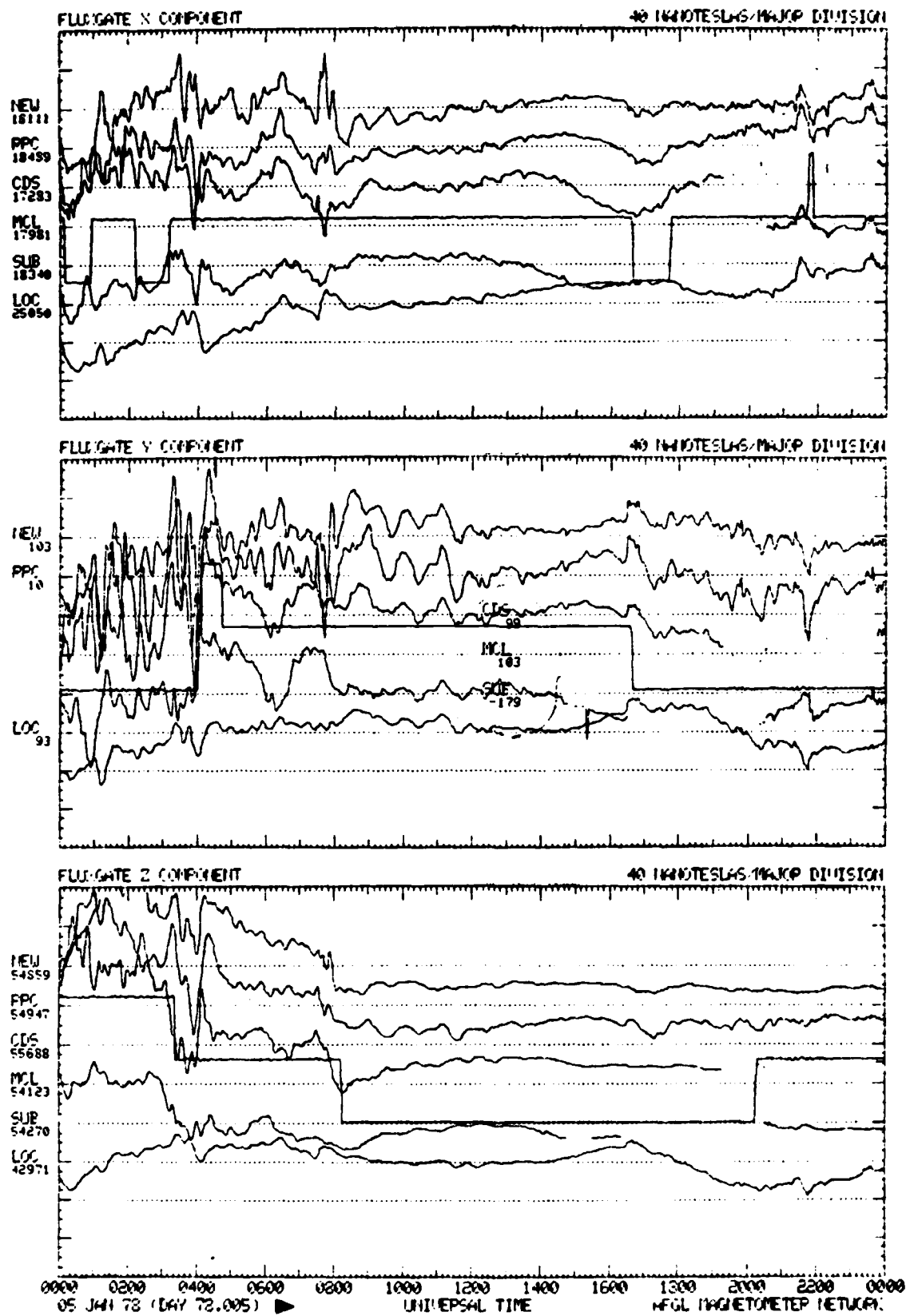
This section presents one stacked-magnetogram plot for each day of 1978, using the standard amplitude scale of 40 nT per major division.

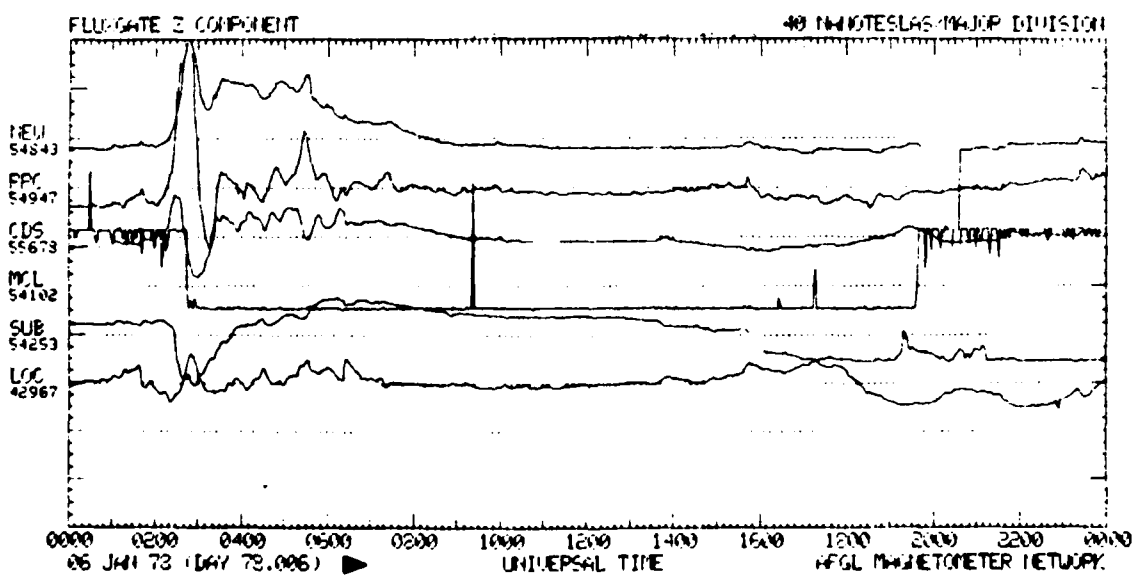
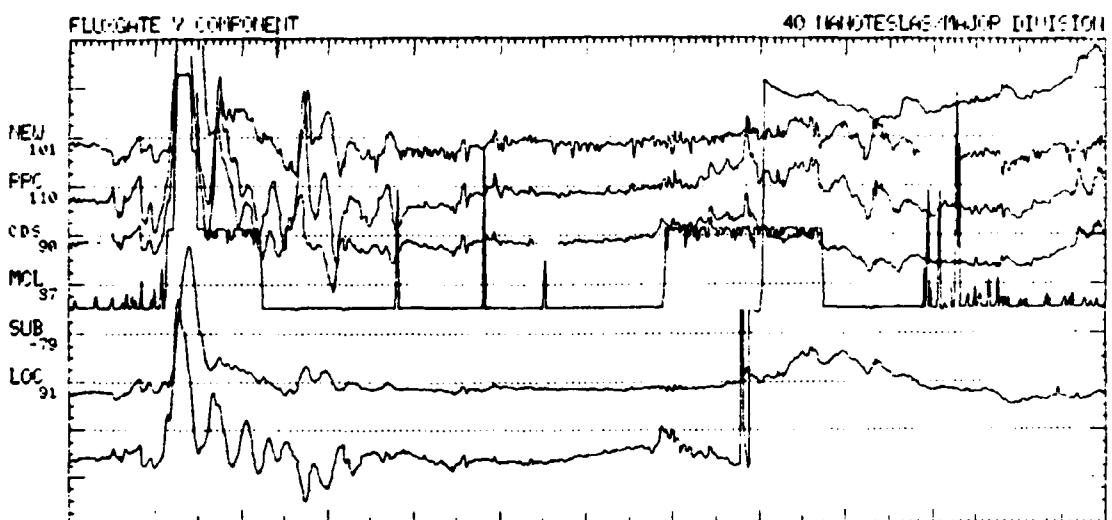
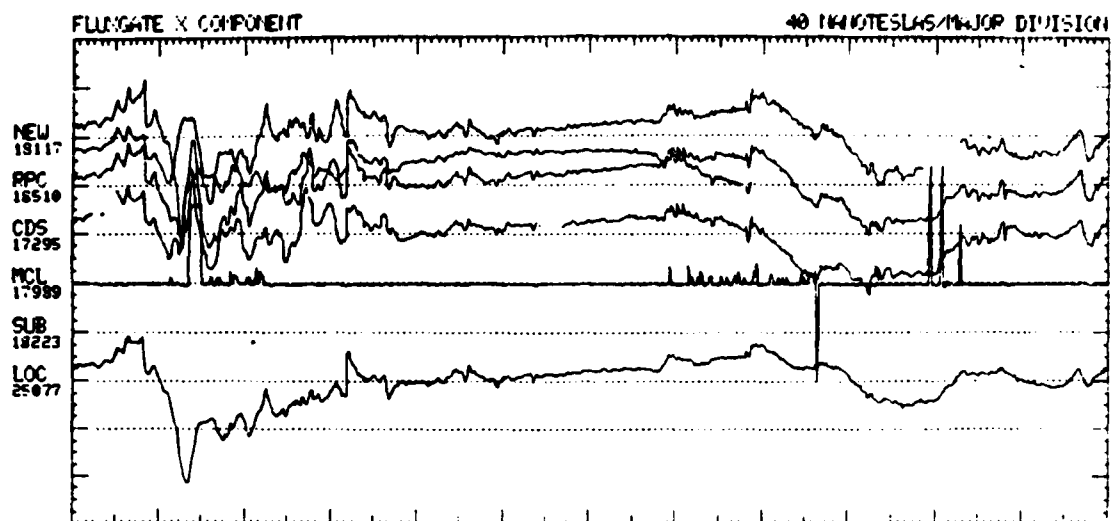


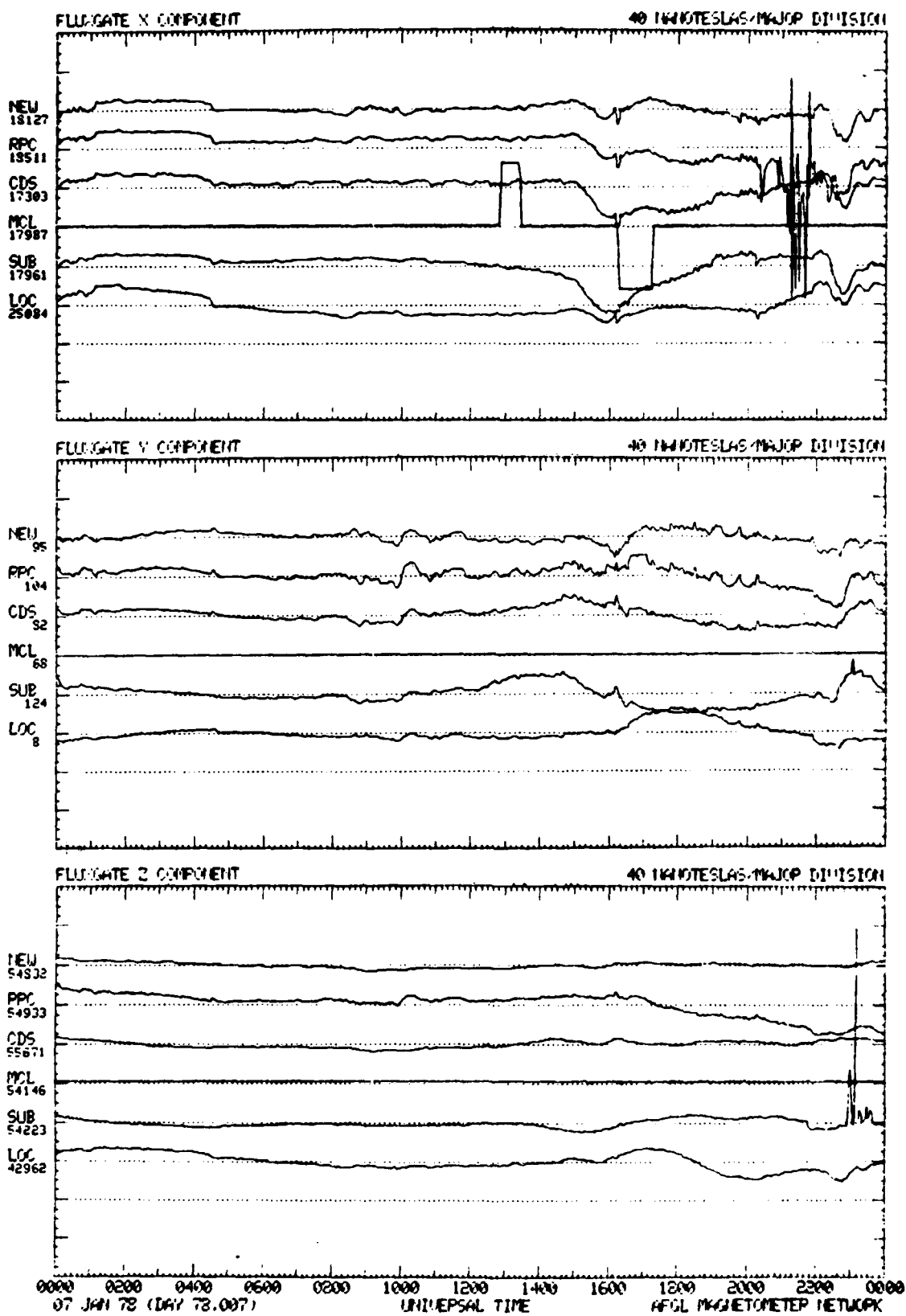


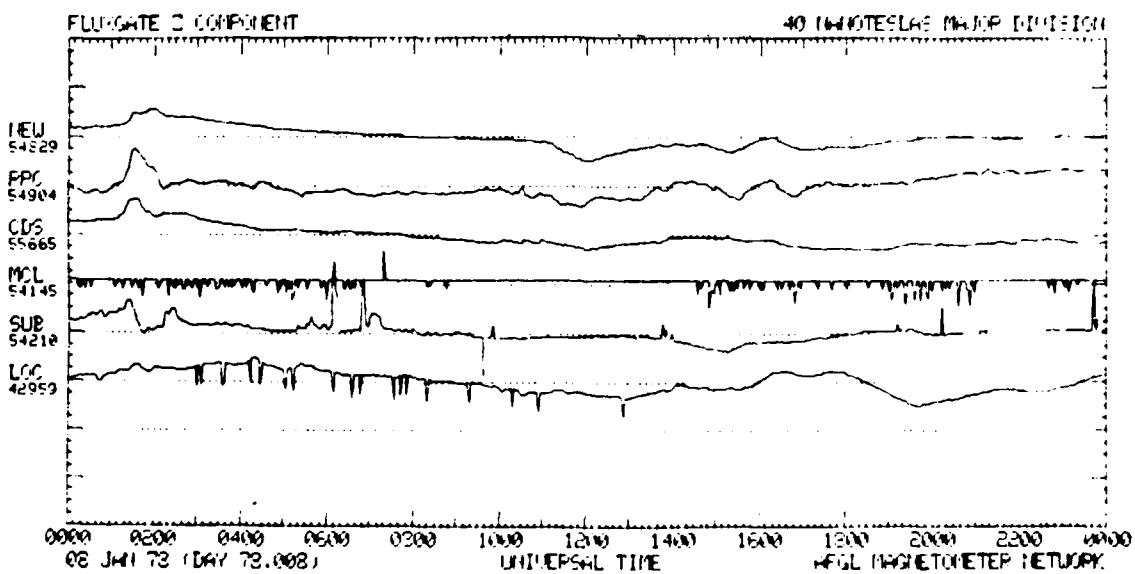
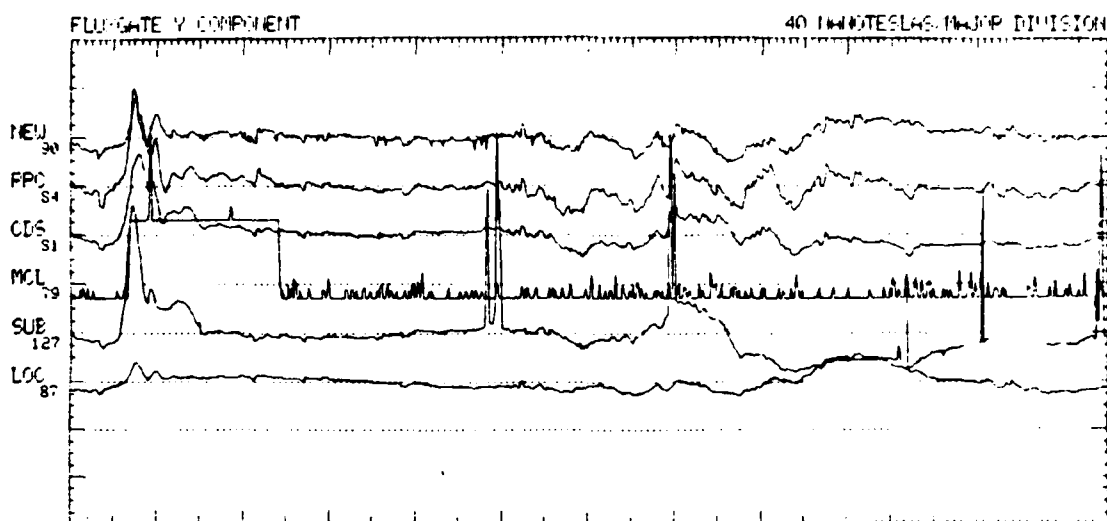
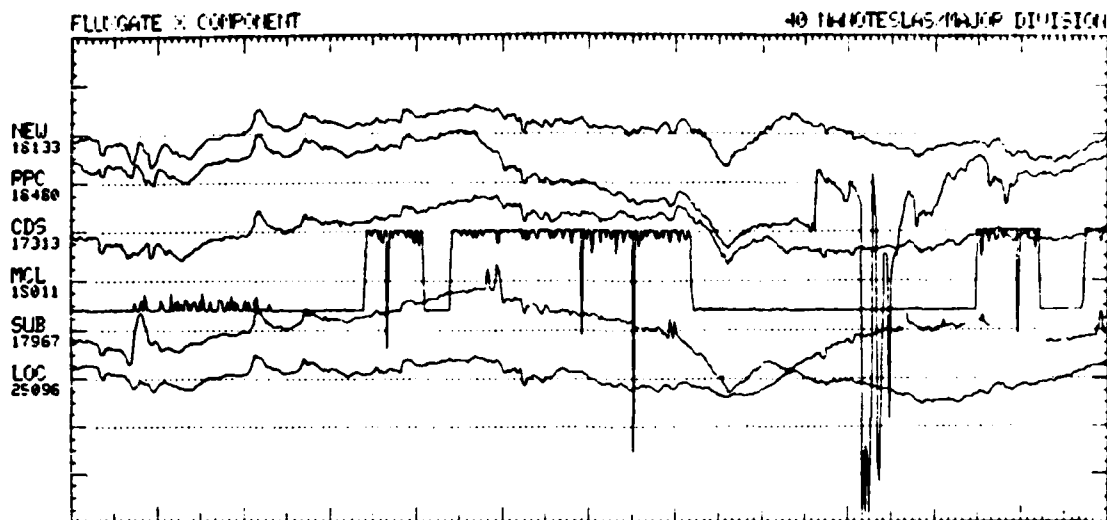


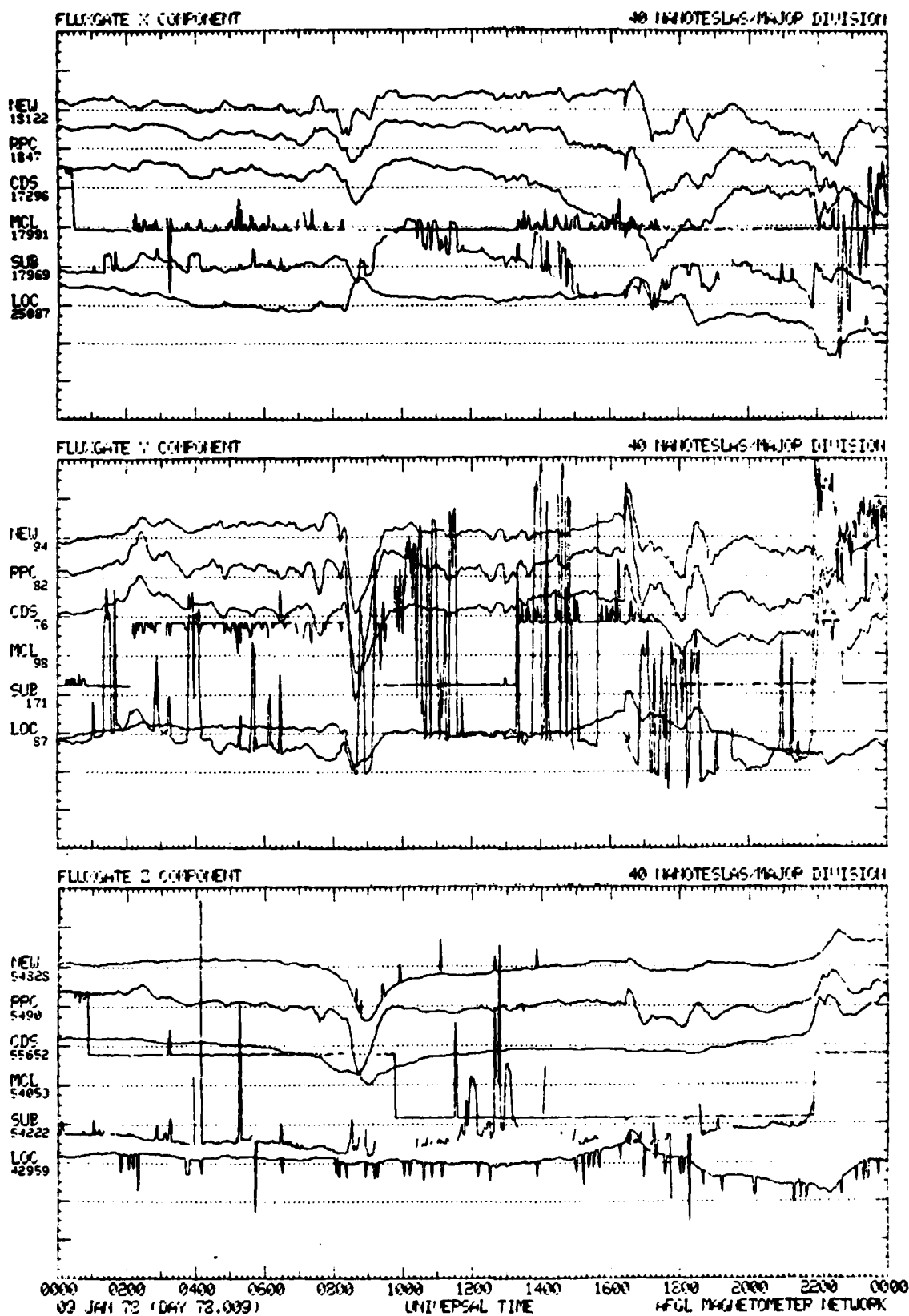


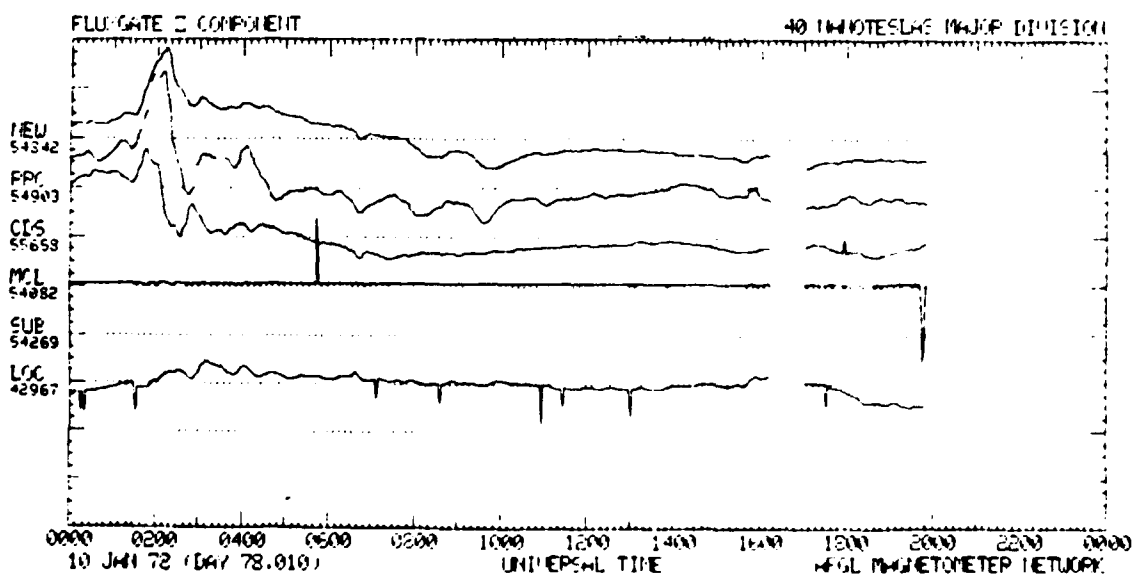
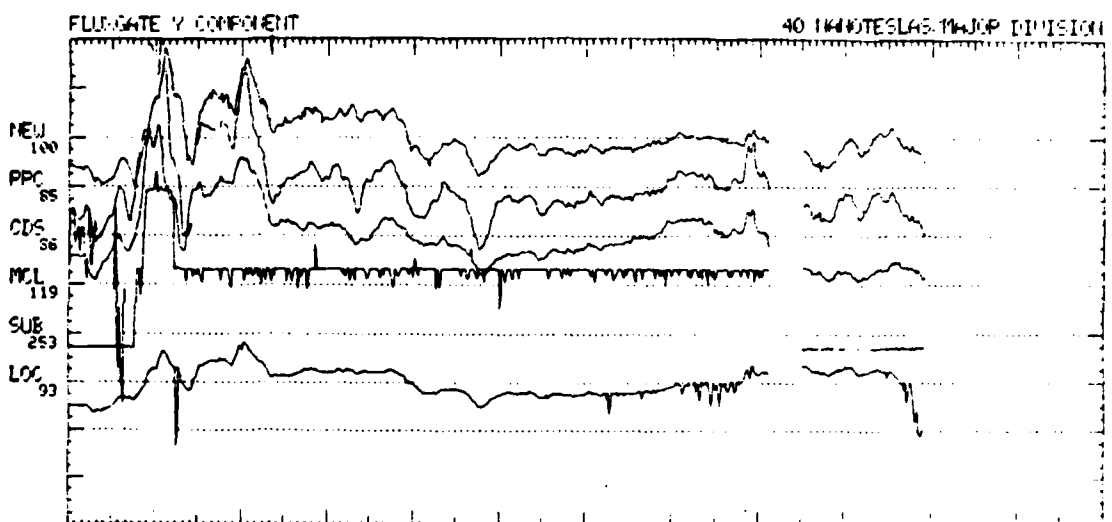
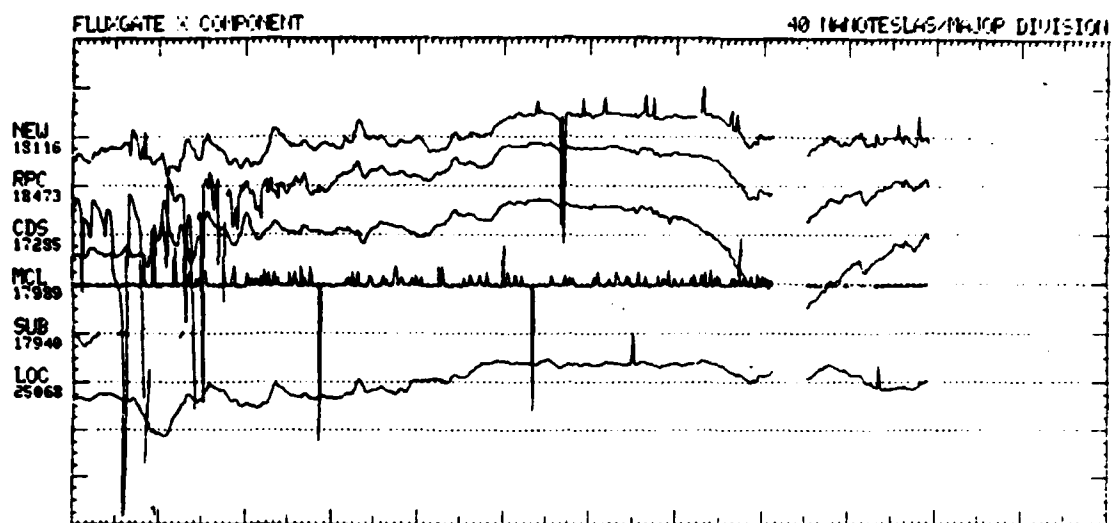


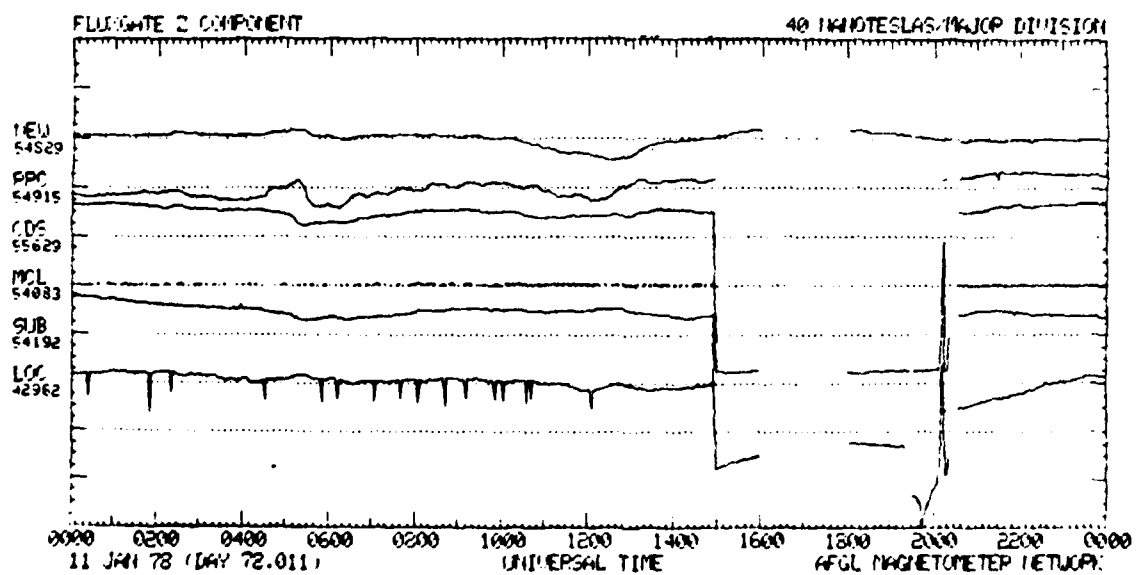
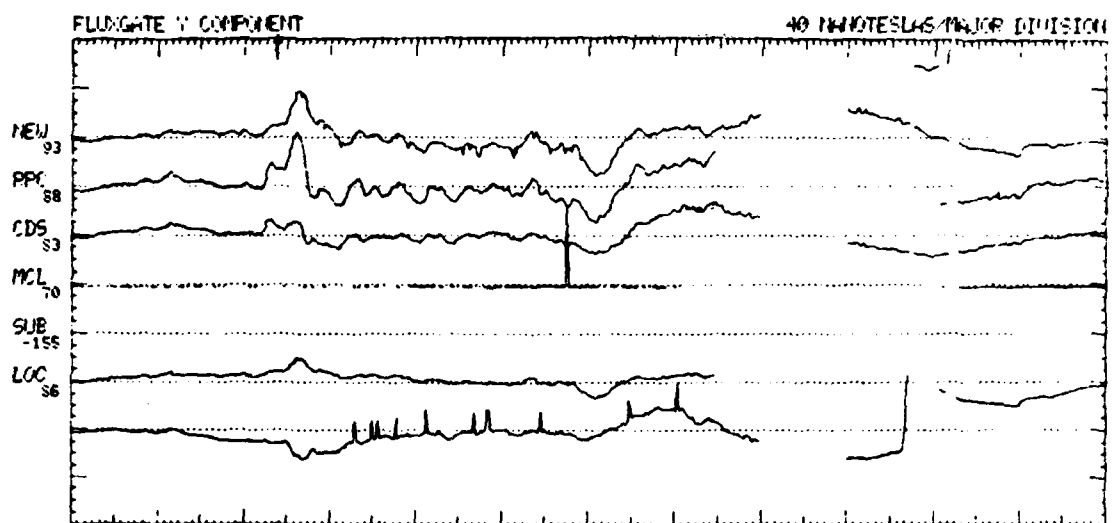
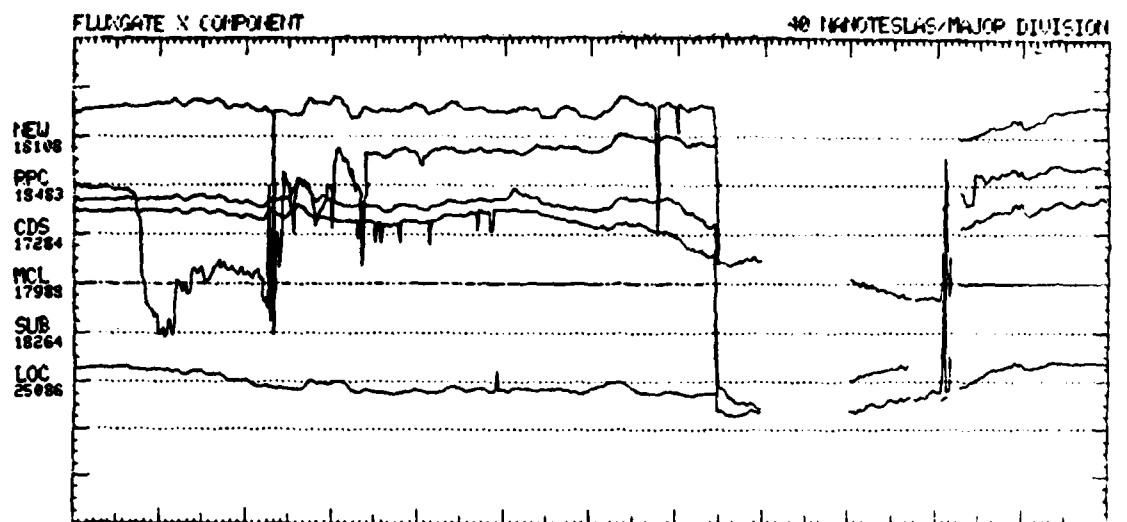


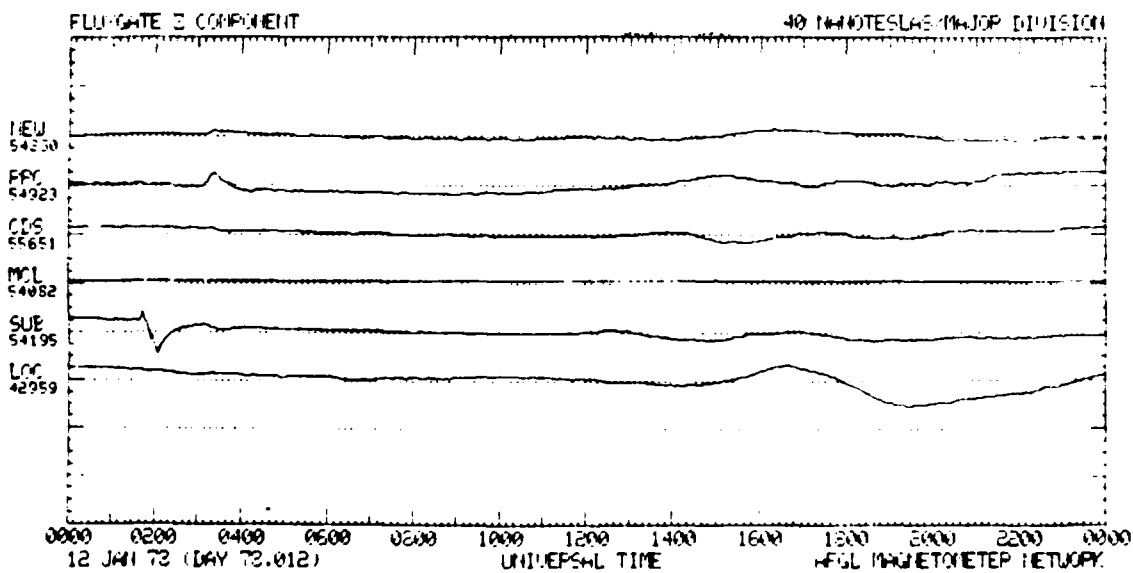
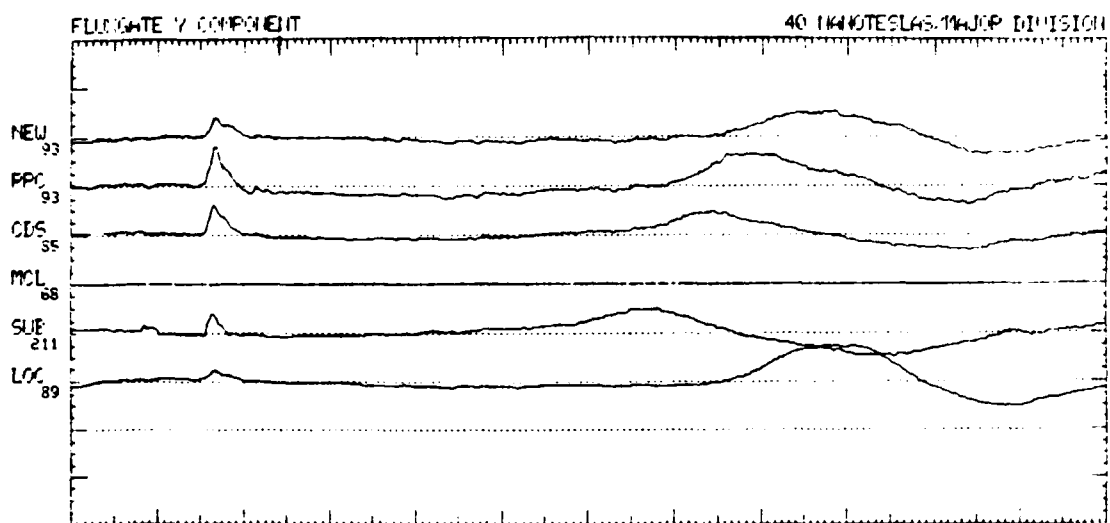
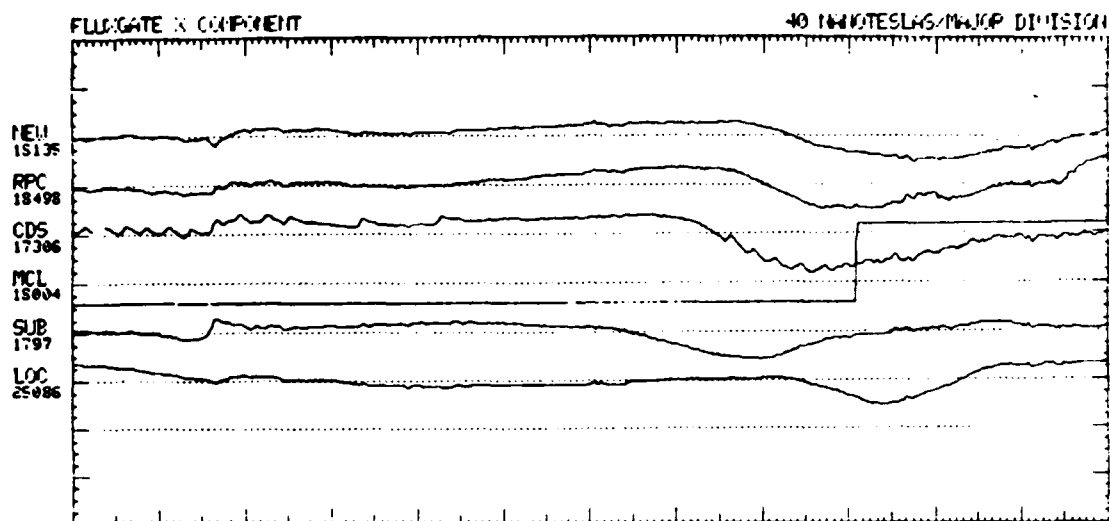


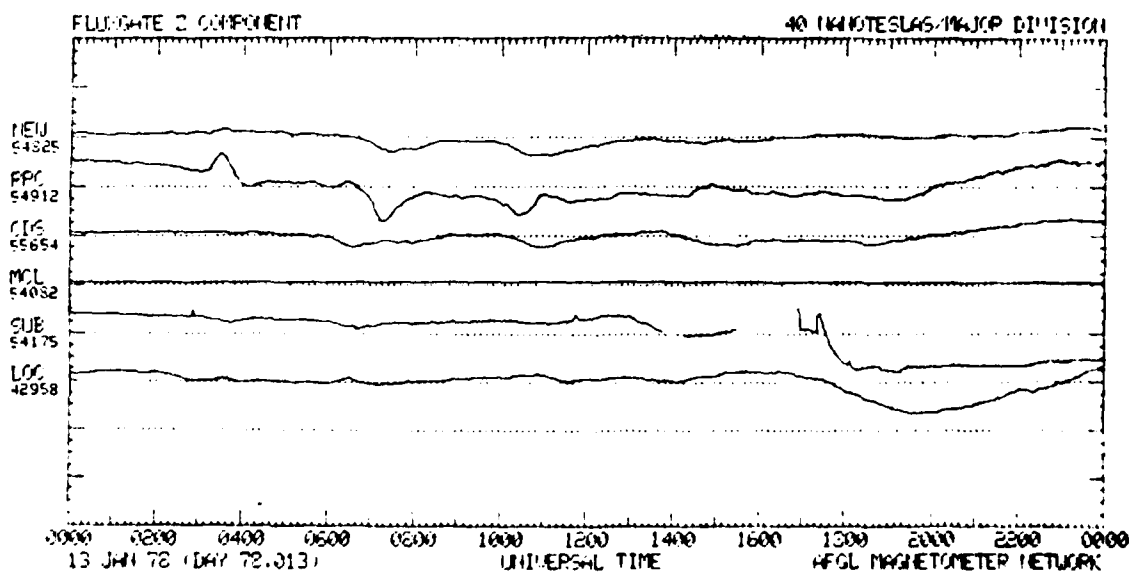
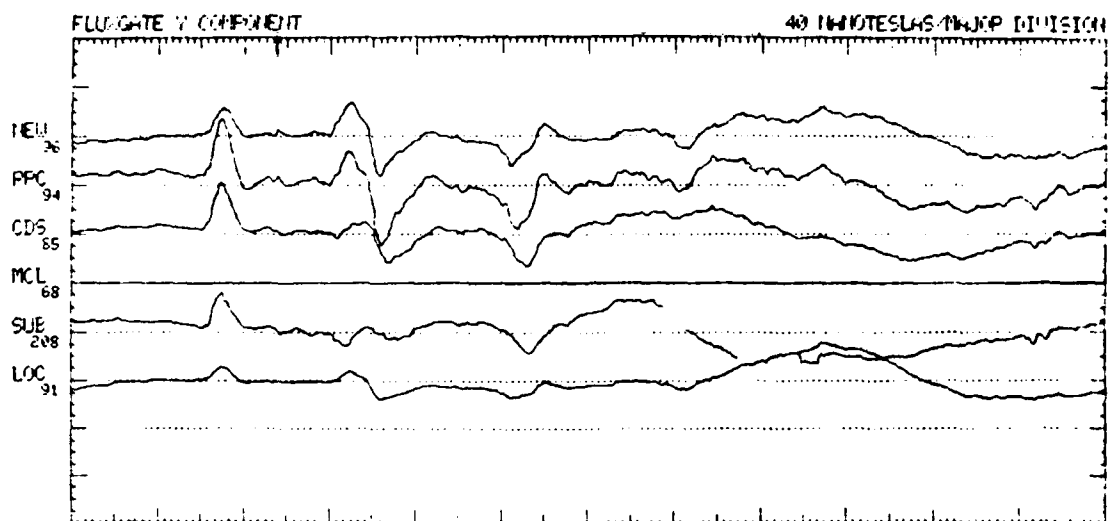
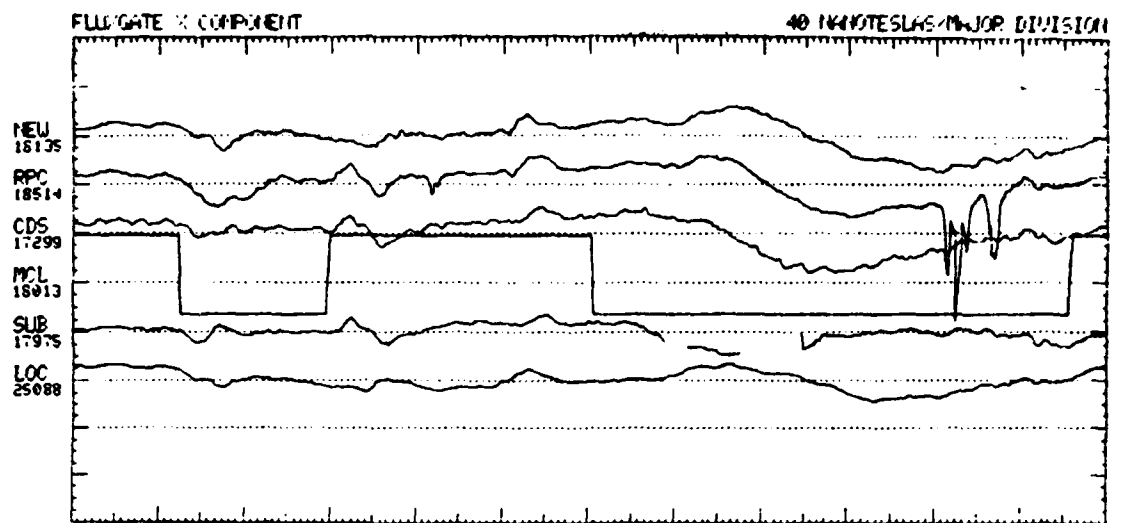


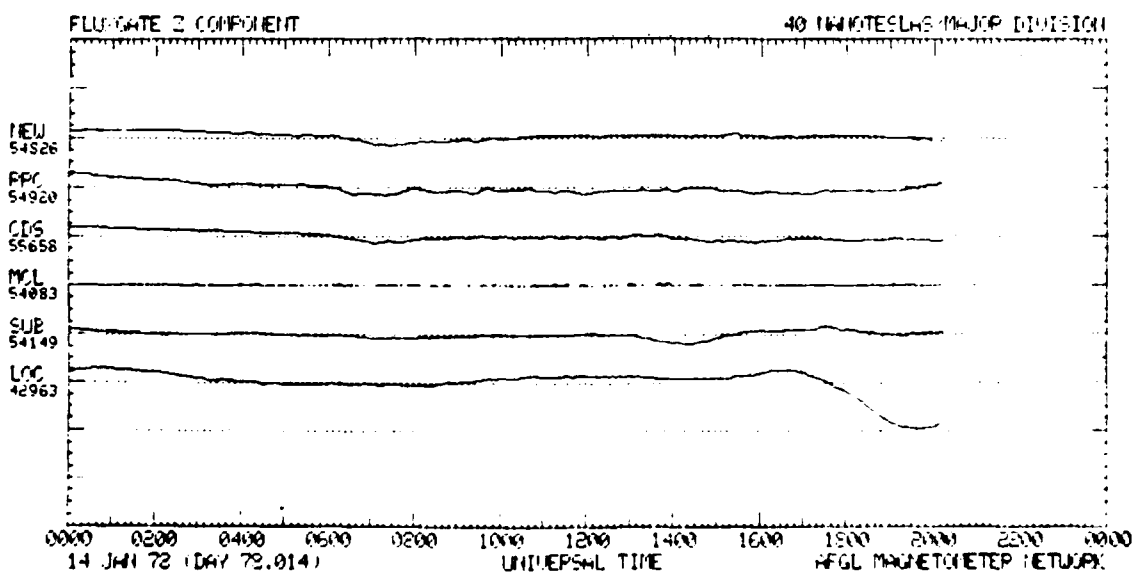
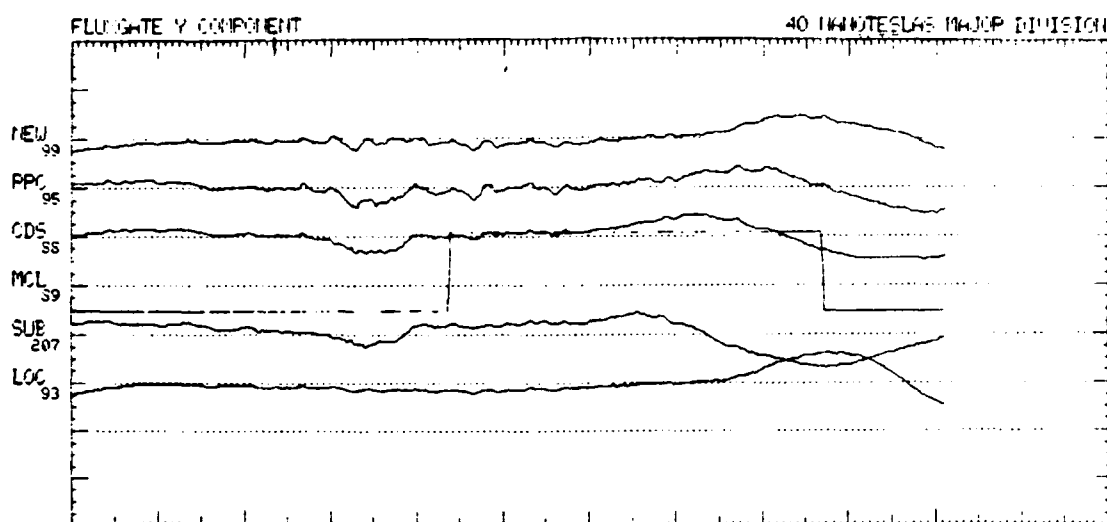
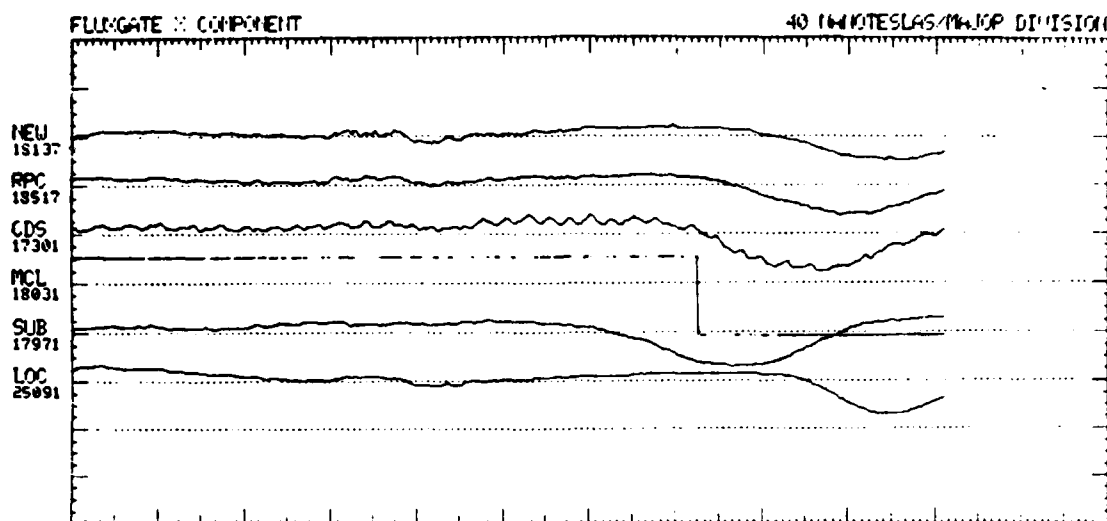


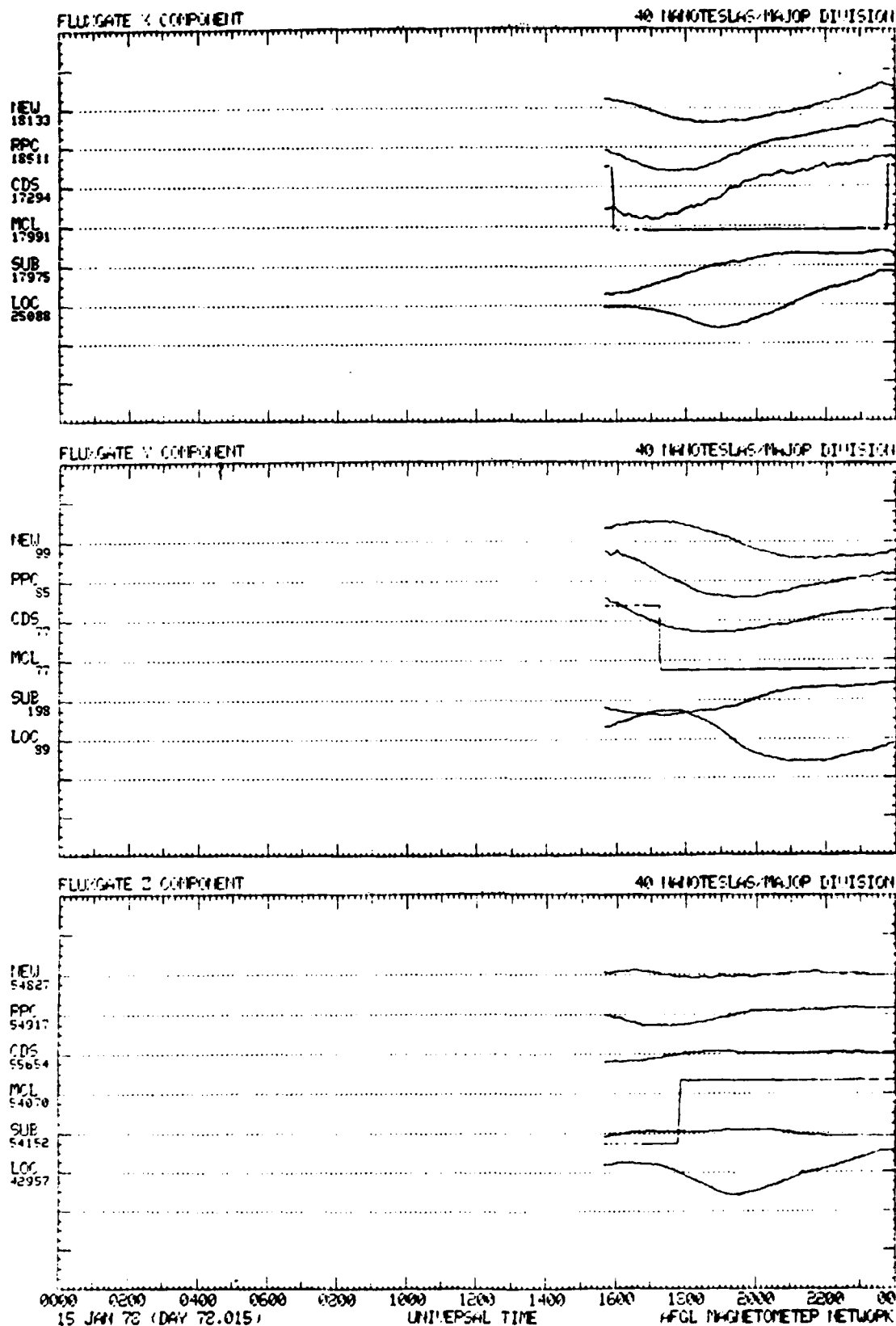


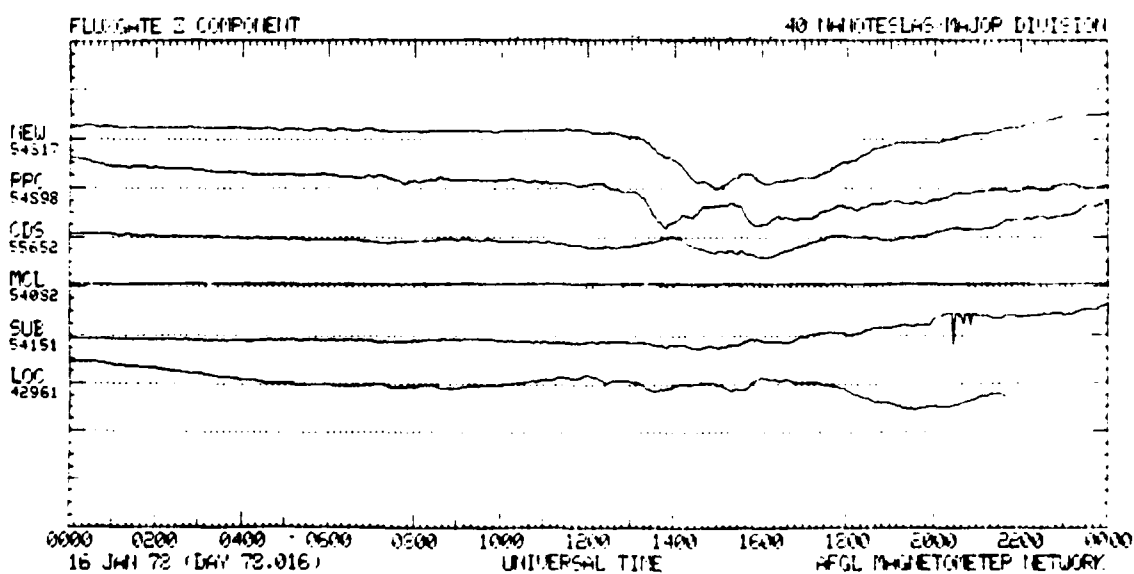
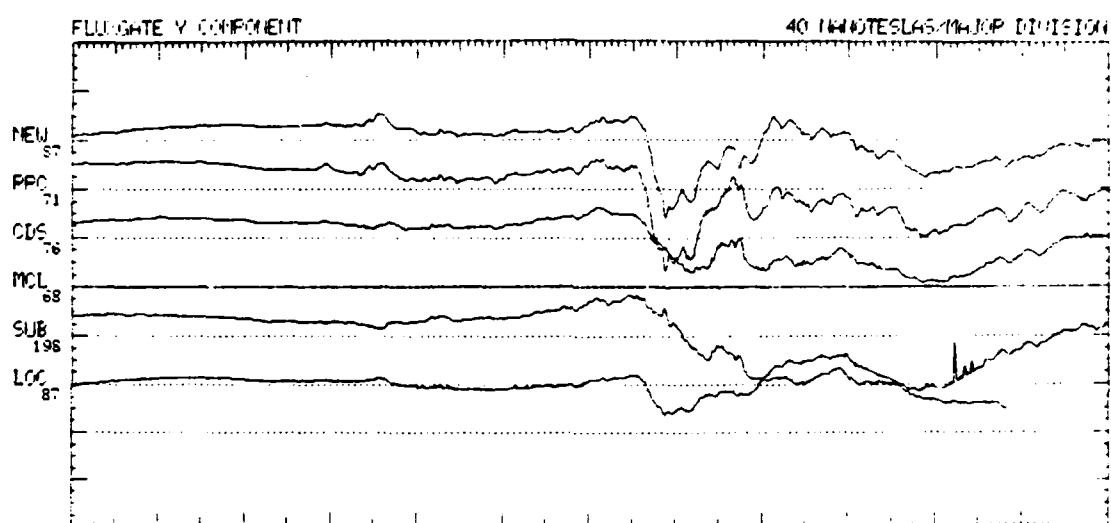
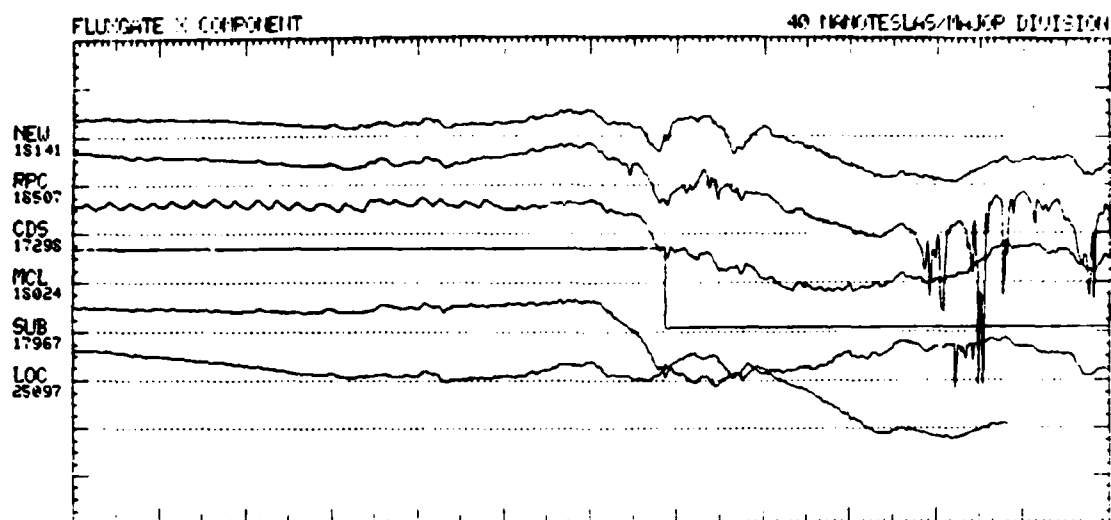


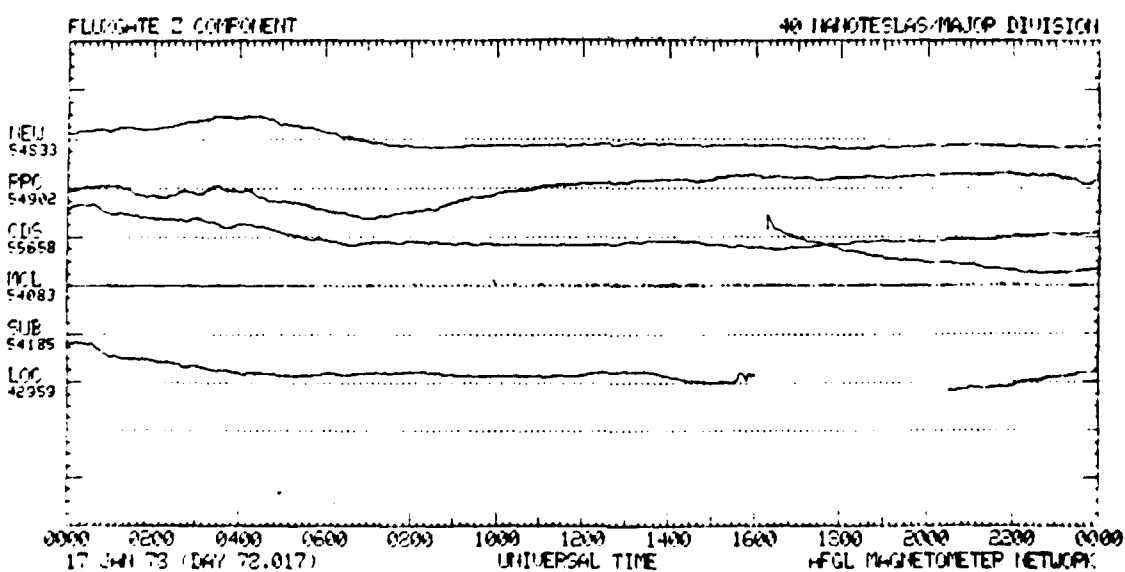
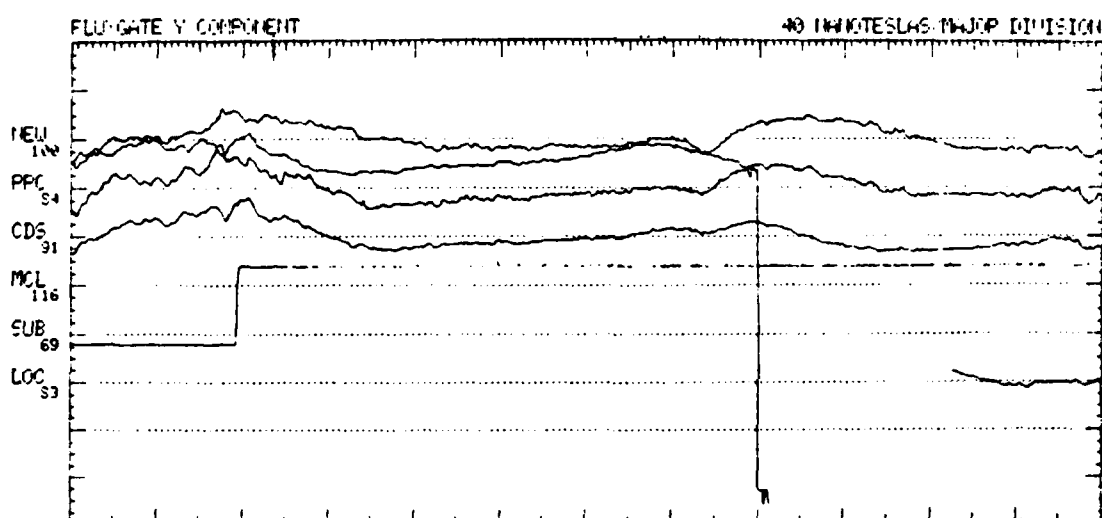
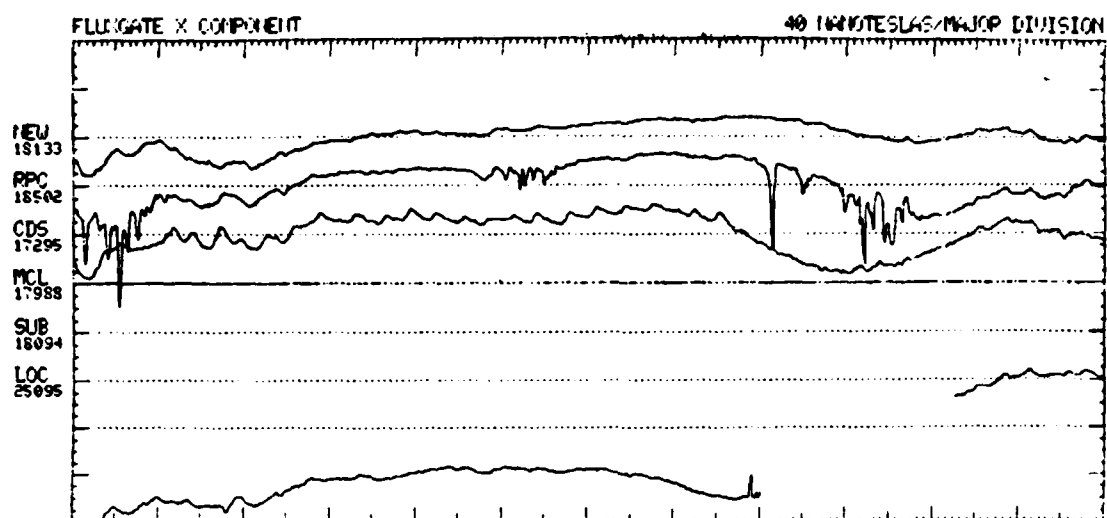


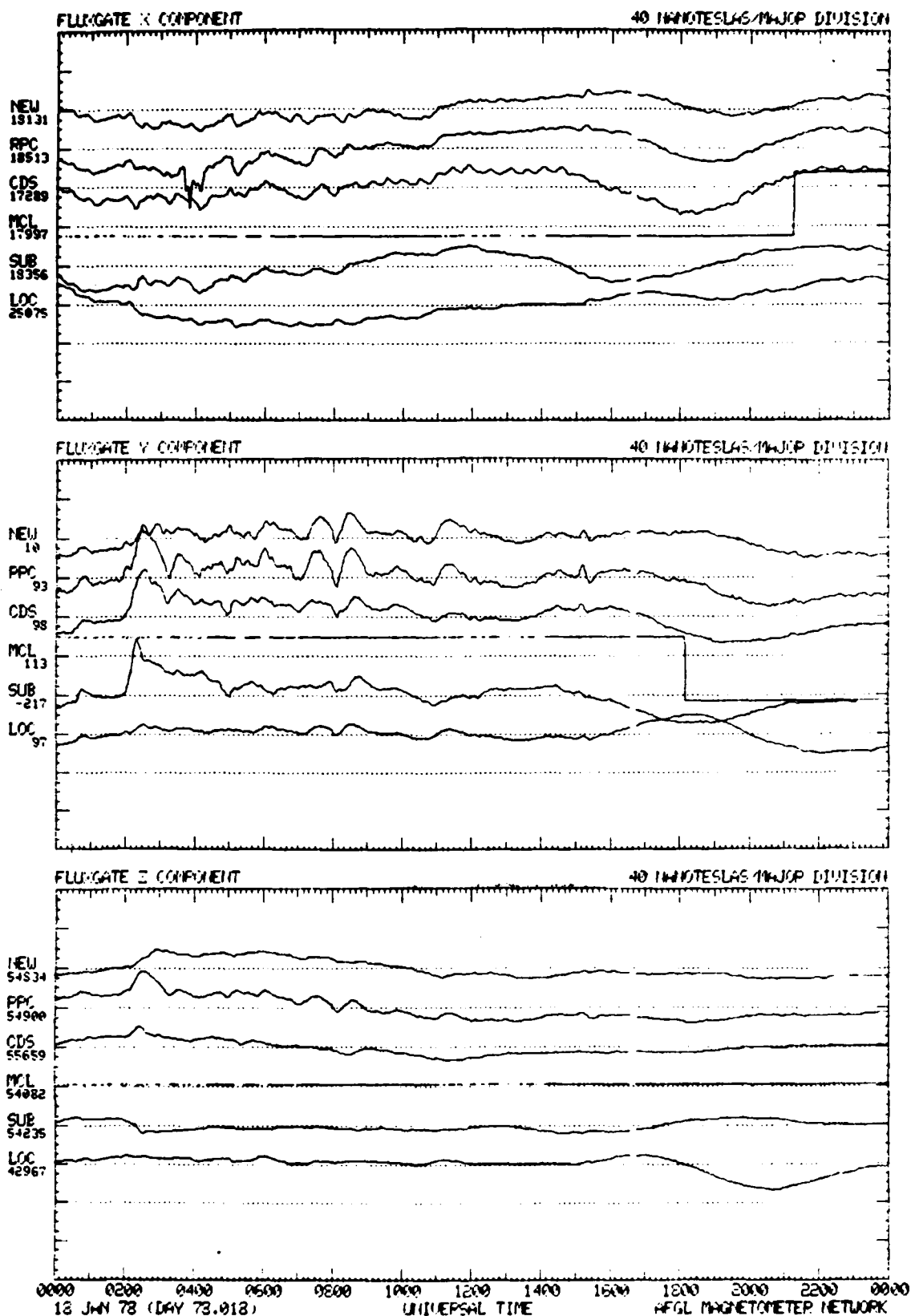


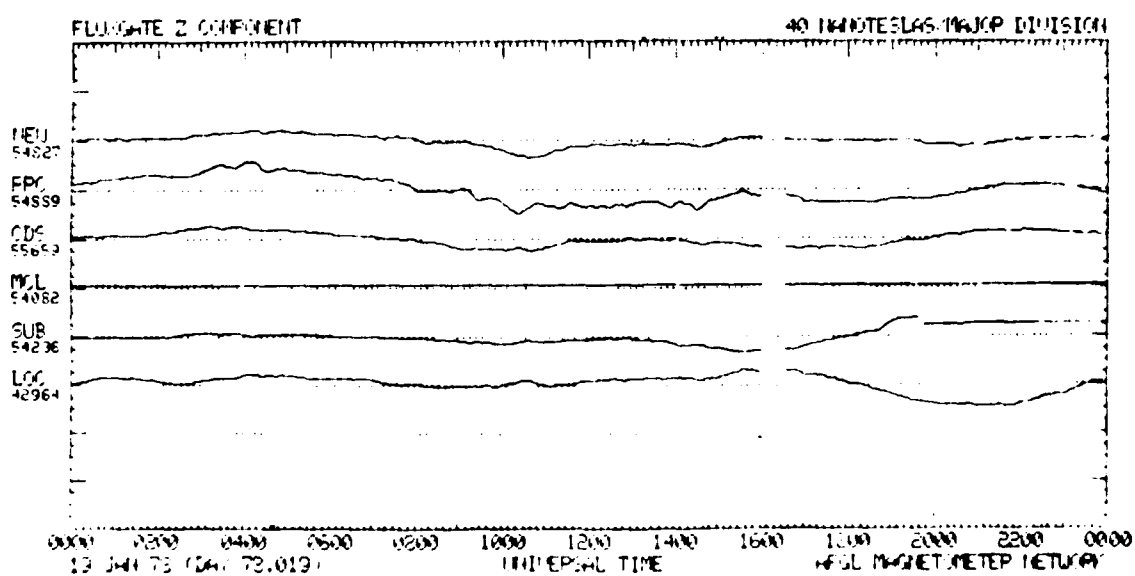
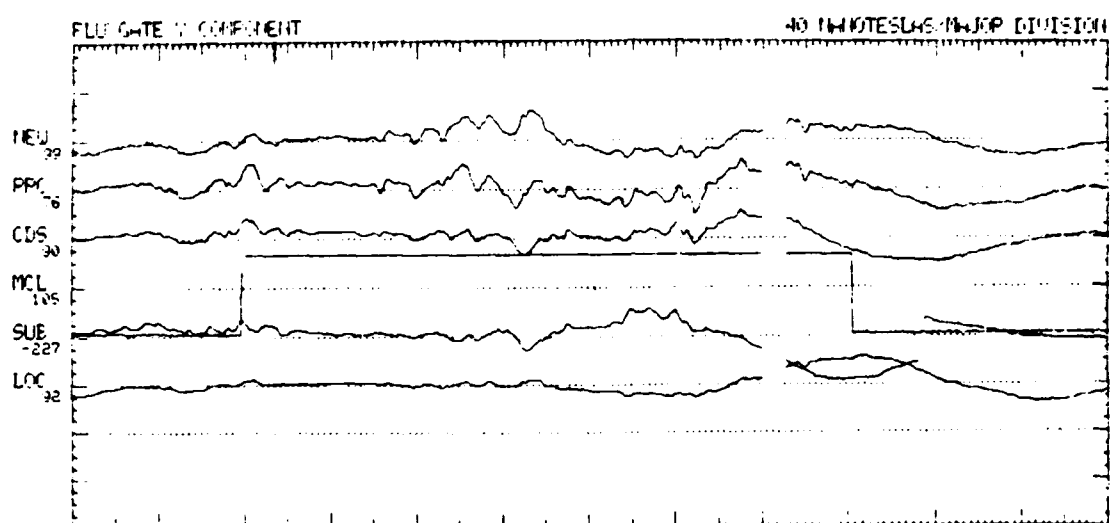
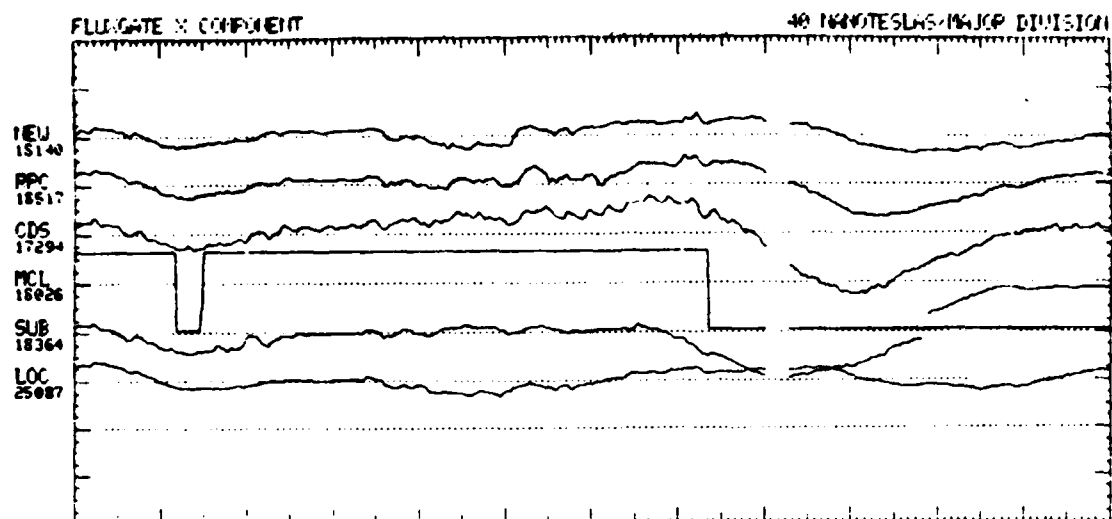


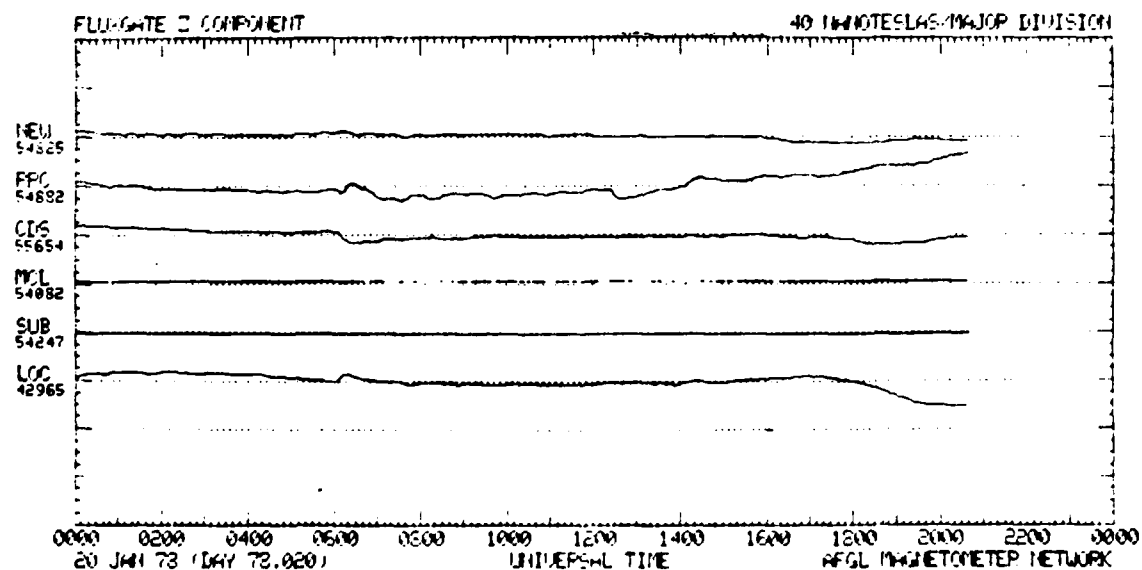
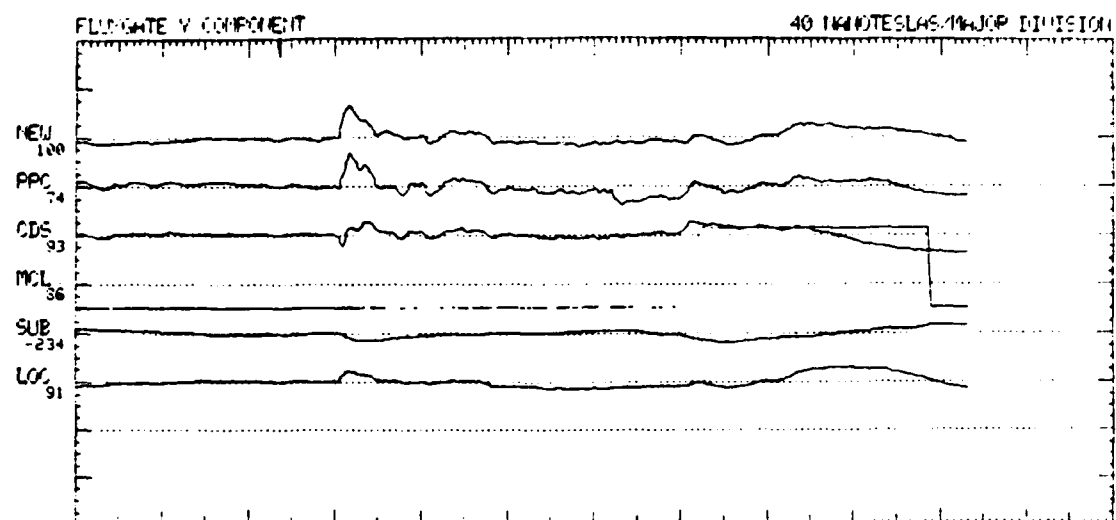
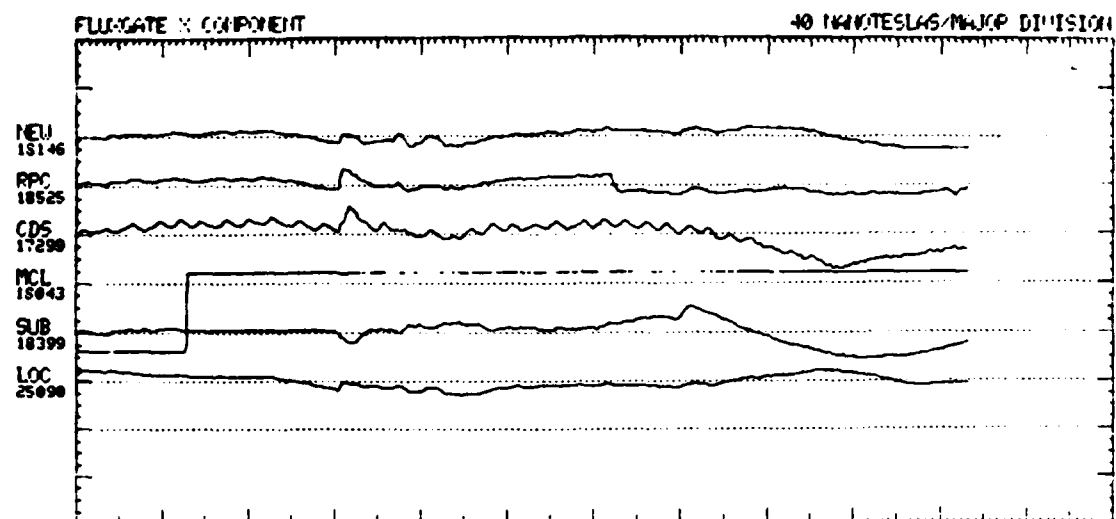


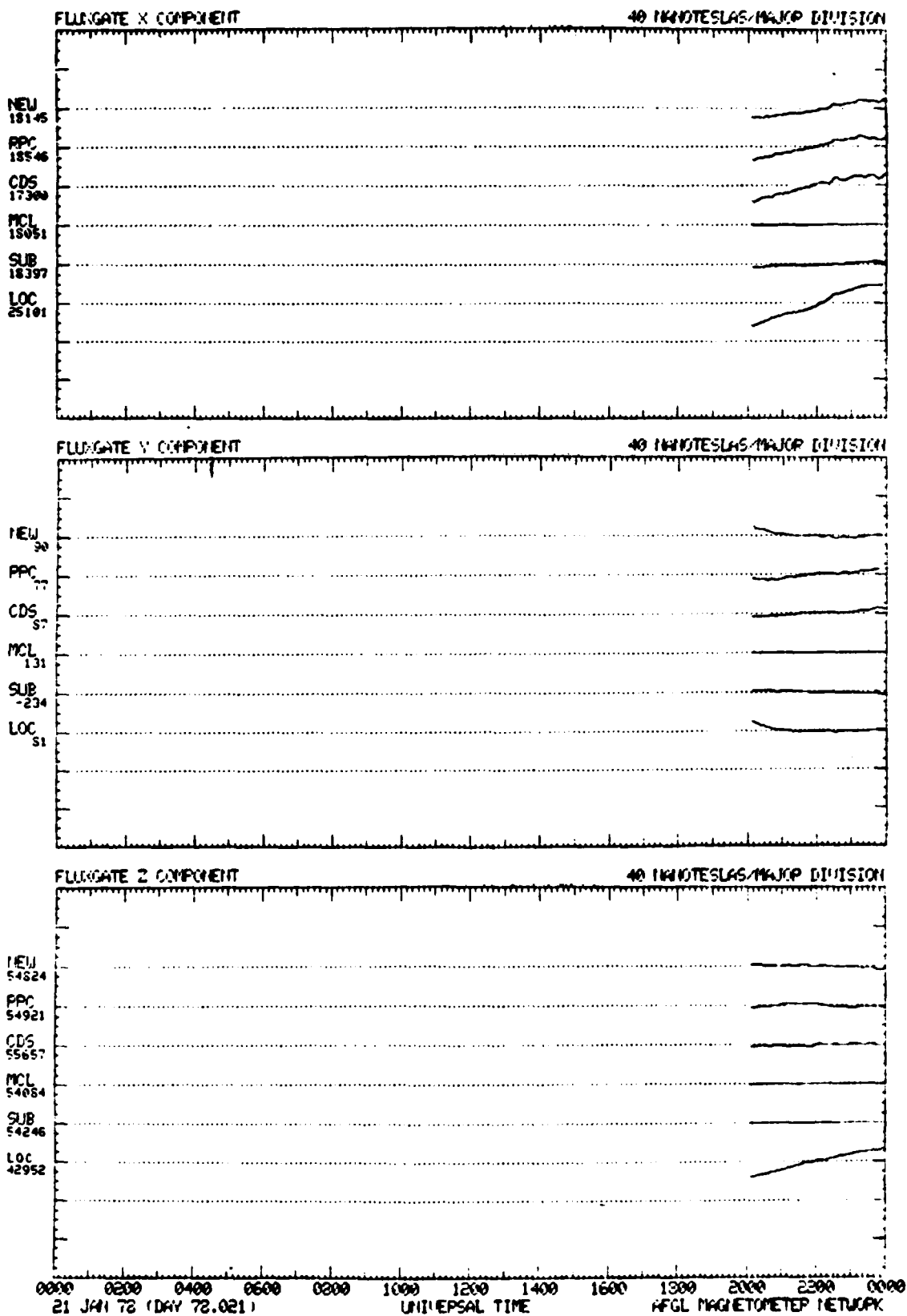


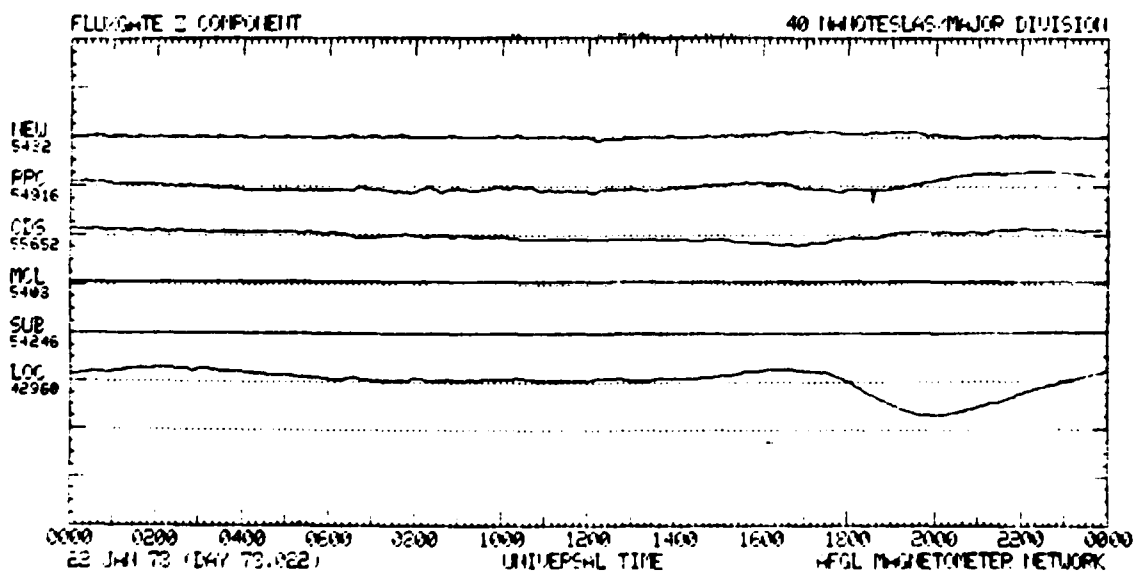
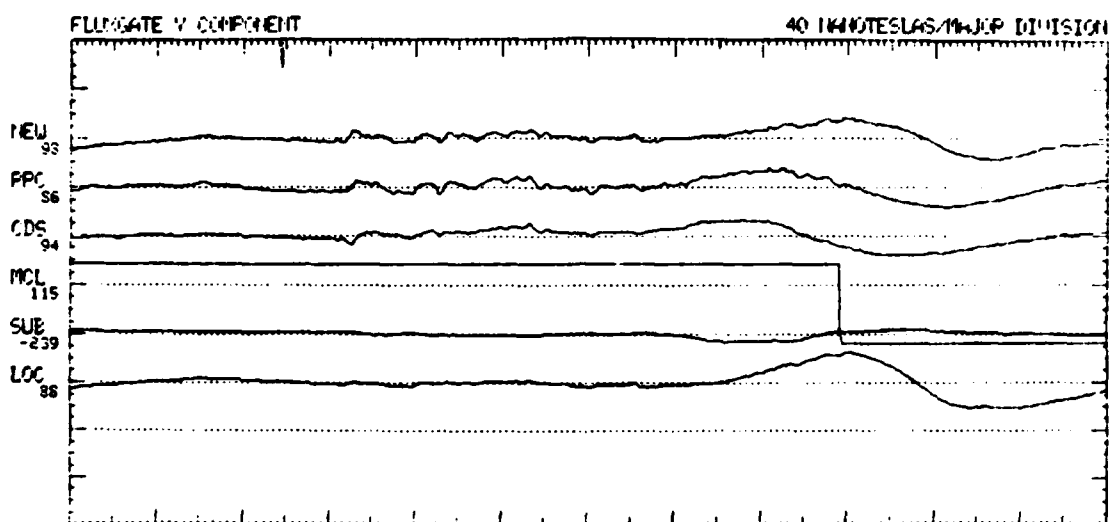
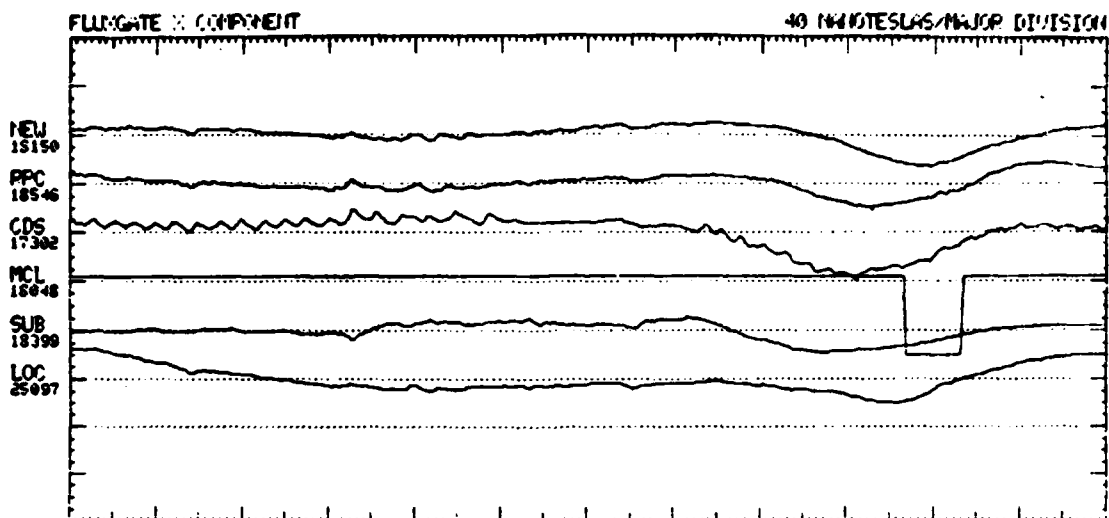




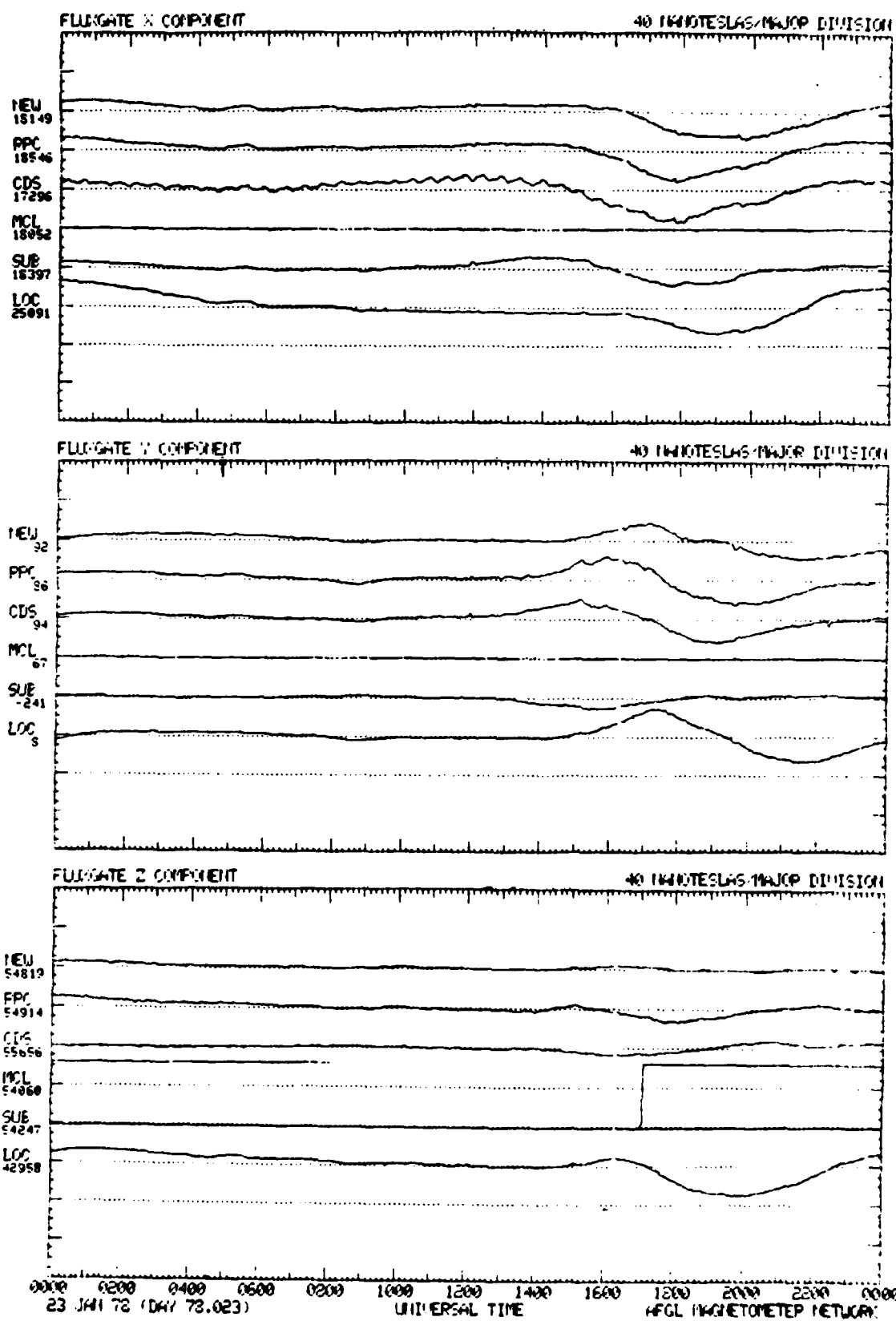


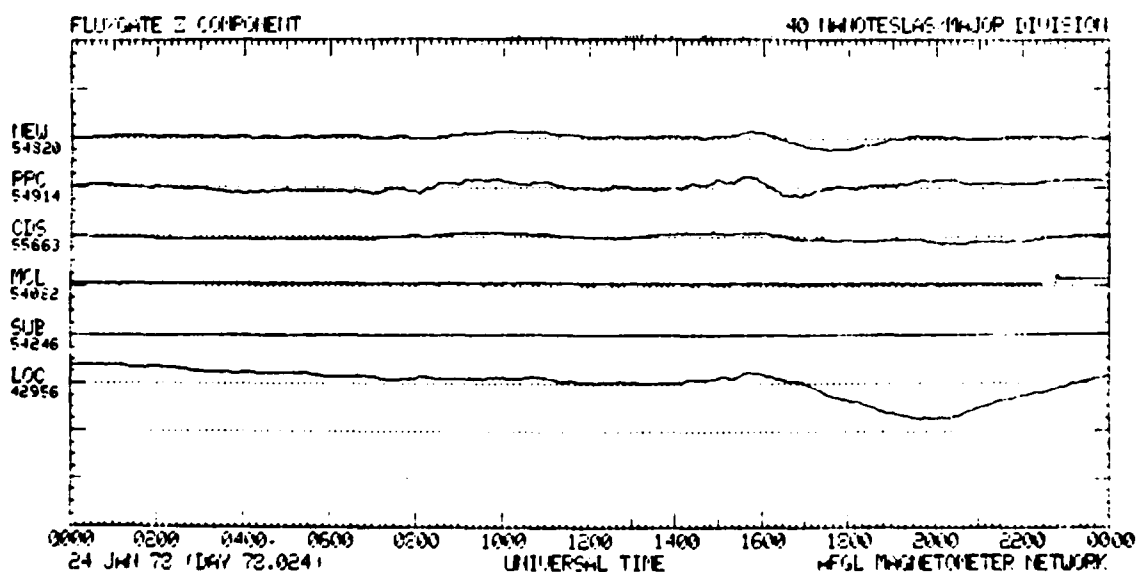
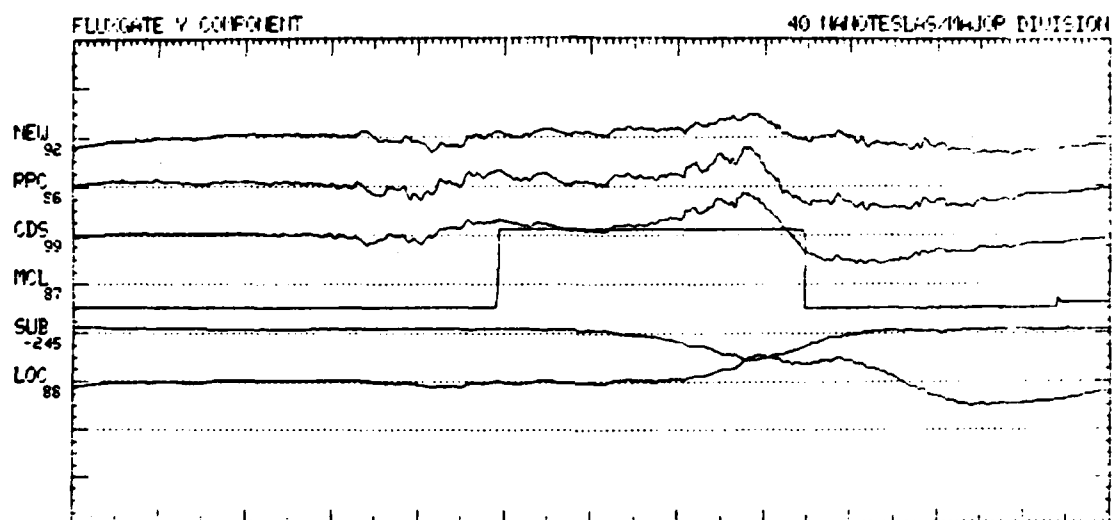
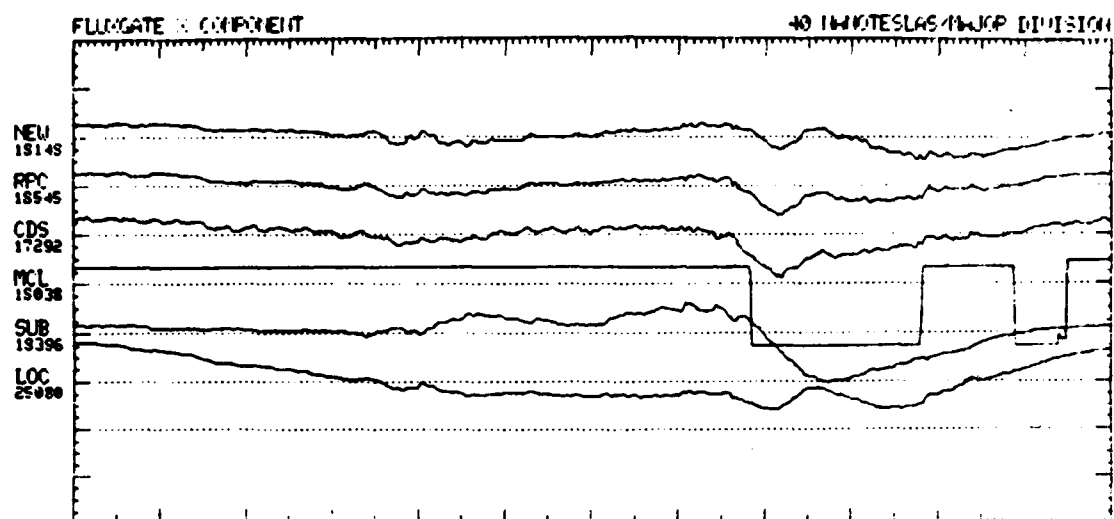




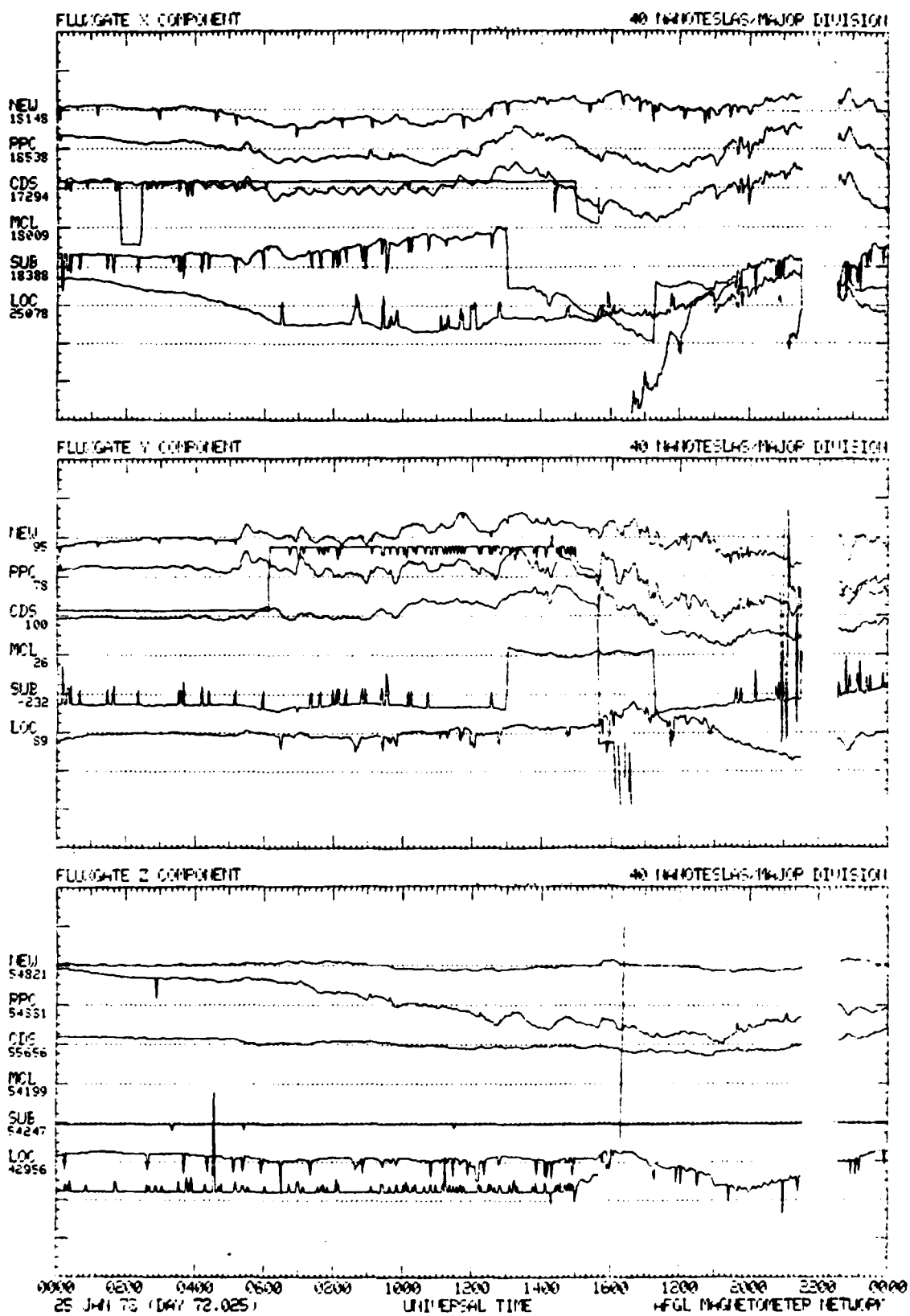


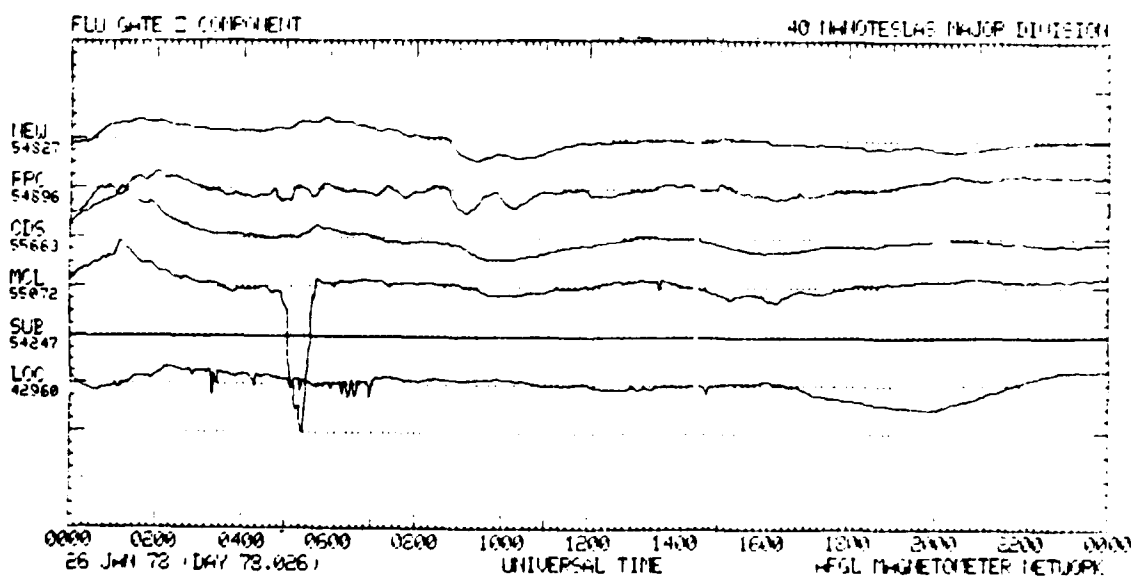
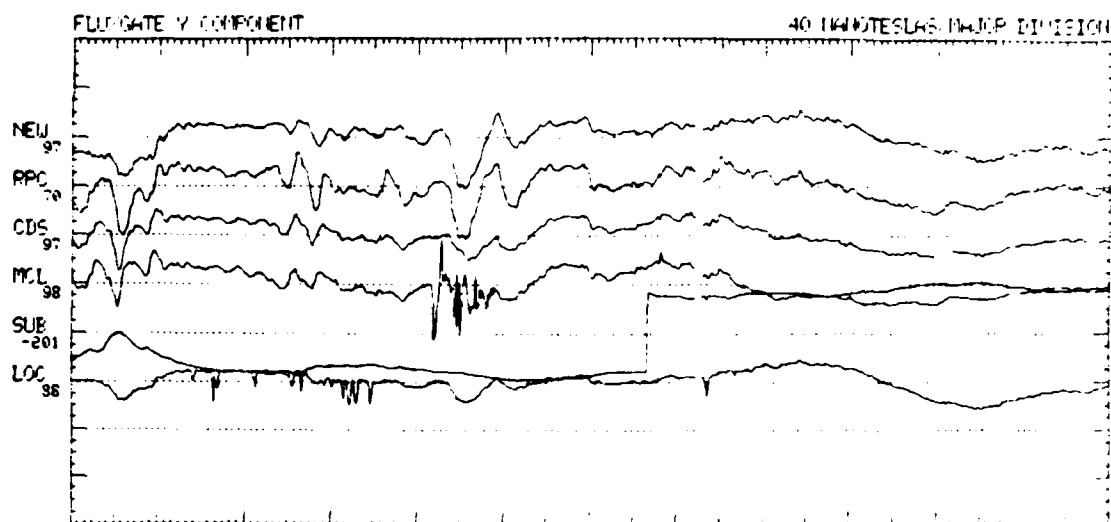
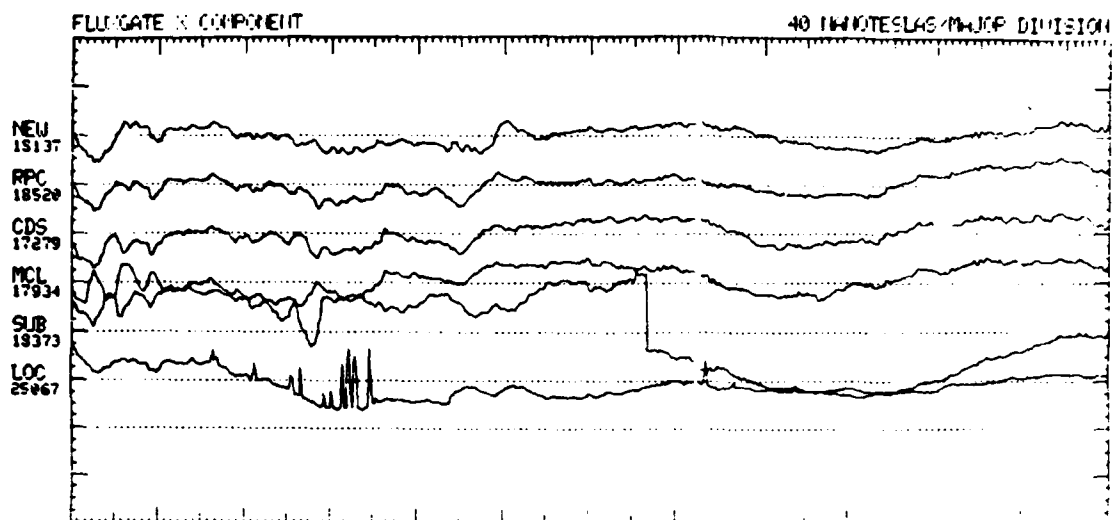
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 JAN 73 (DAY 73.022) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK





0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
24 JAN 72 (DAY 72.024) UNIVERSAL TIME HGL MAGNETOMETER NETWORK

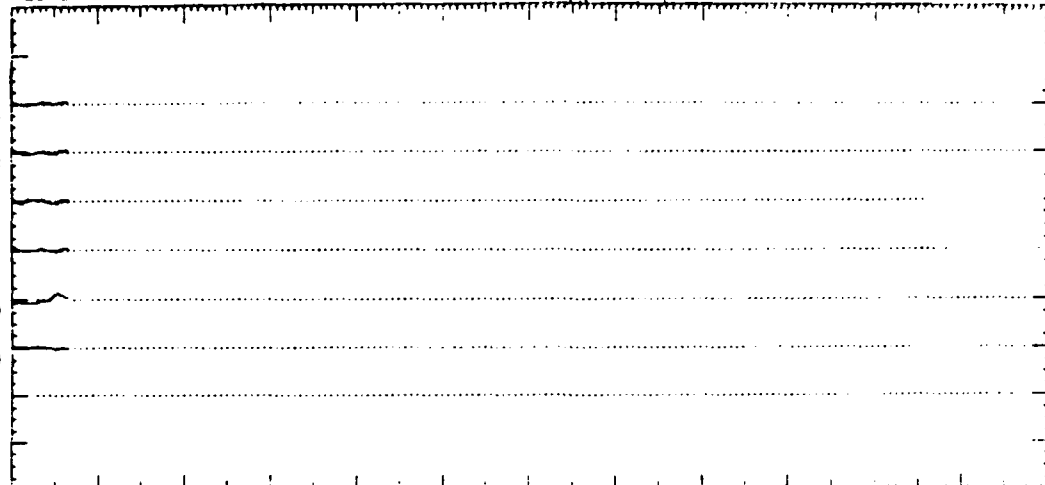




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

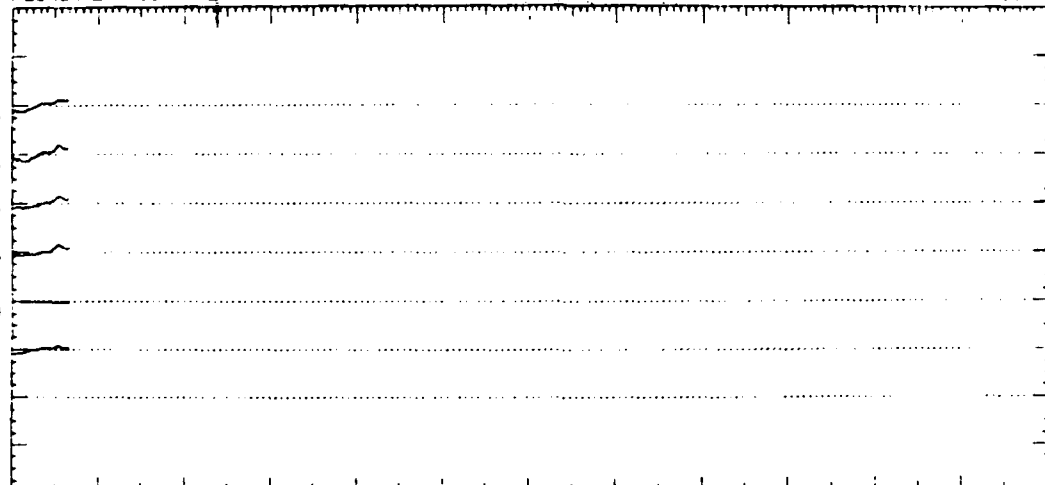
NEW
15146
RPC
18533
CDS
1728
MCL
1794
SUB
19340
LOC
25104



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

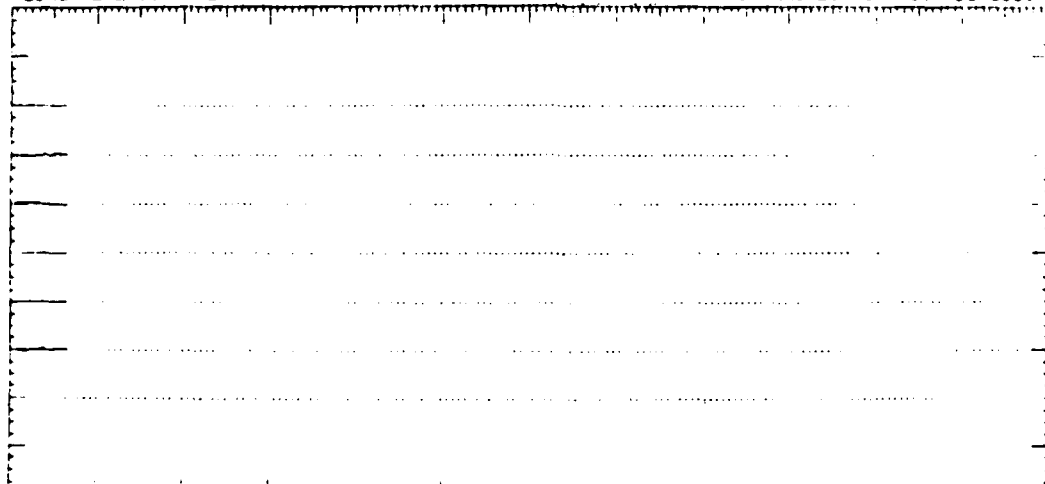
NEW
95
RPC
74
CDS
97
MCL
97
SUB
-164
LOC
58



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54826
RPC
54907
CDS
55658
MCL
55079
SUB
54246
LOC
42973



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
27 JAN 78 (DAY 78.027) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK

FLUNGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
131.46
RPC
185.33
CDS
172.56
MCL
179.46
SUB
183.46
LOC
251.04

FLUNGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

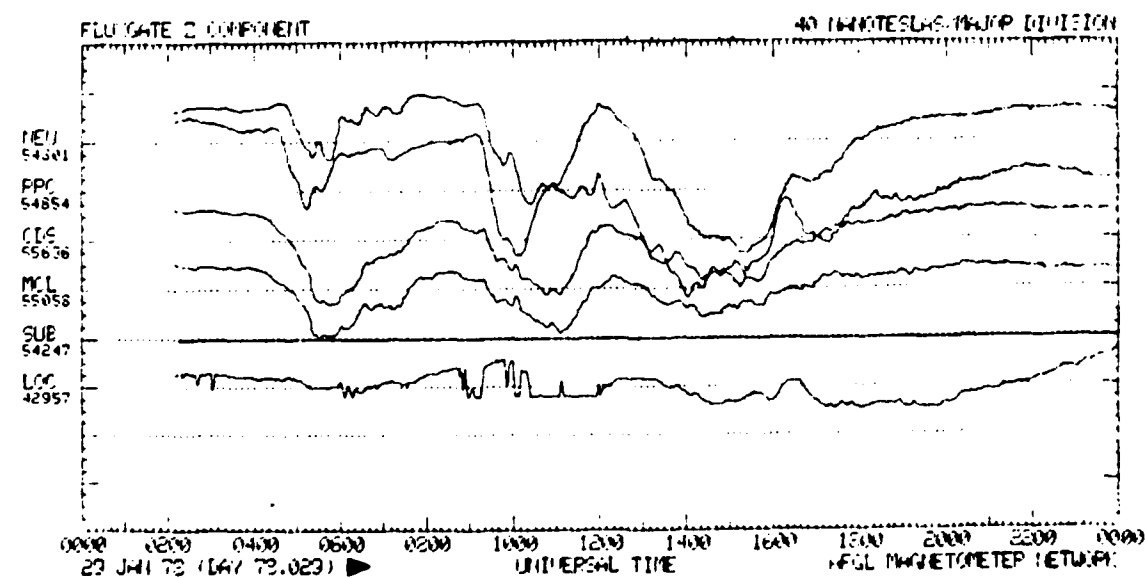
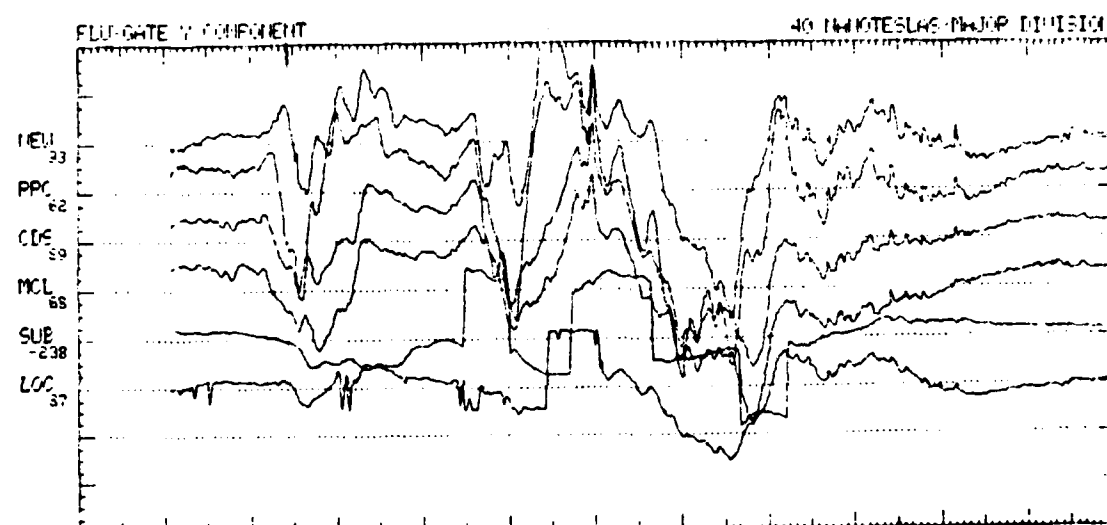
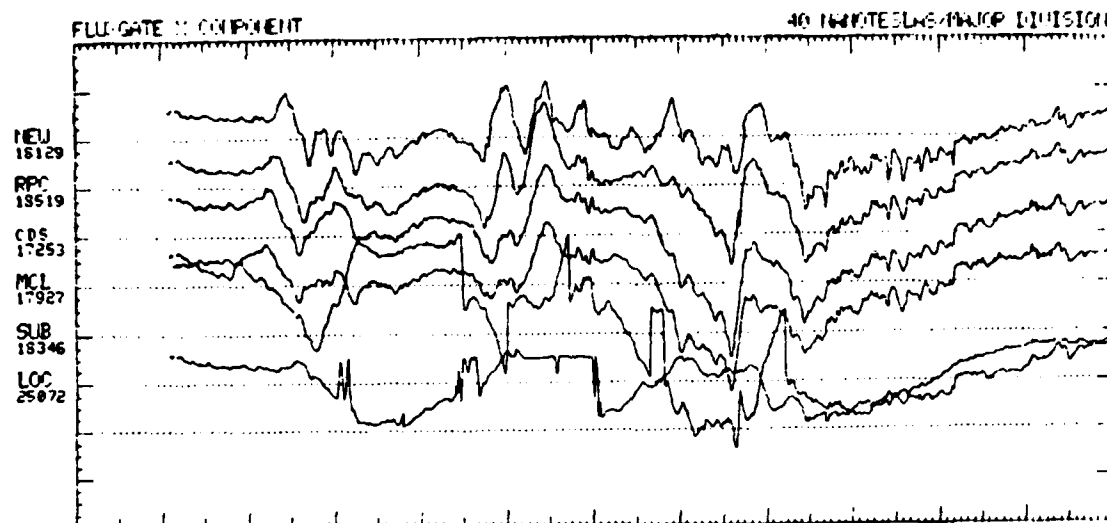
NEW
95
RPC
74
CDS
97
MCL
97
SUB
-164
LOC
88

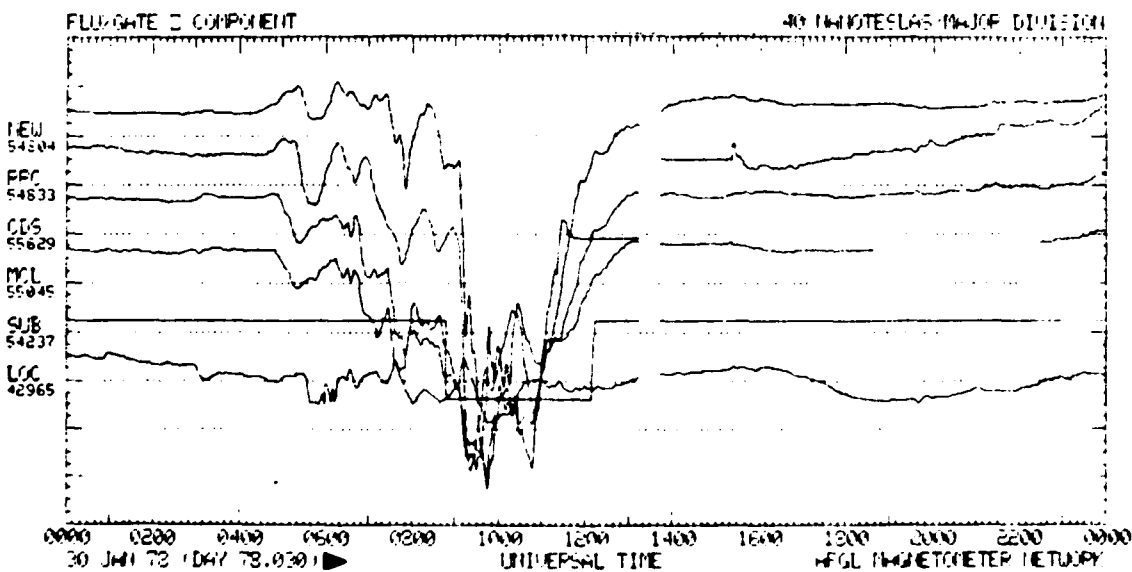
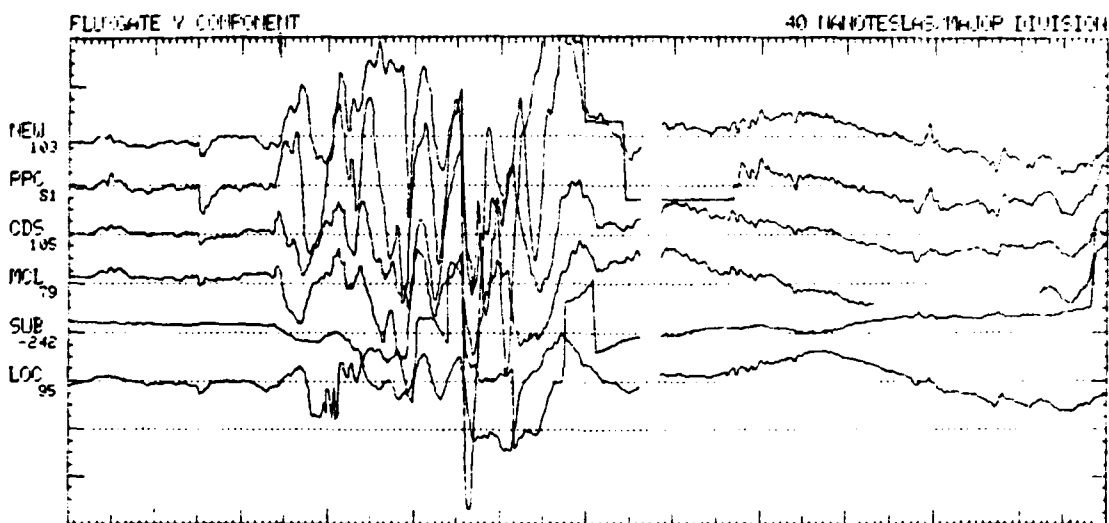
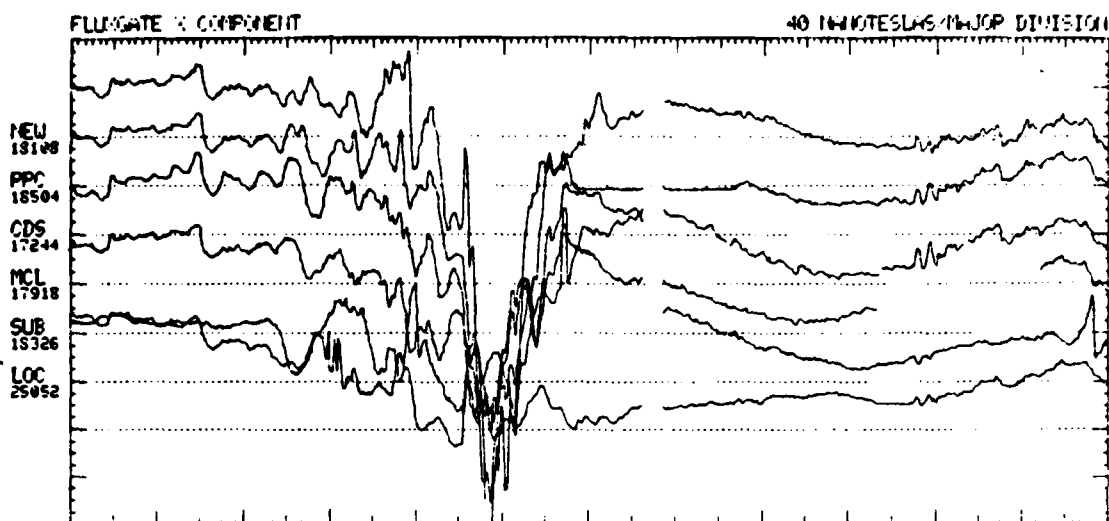
FLUNGATE Z COMPONENT

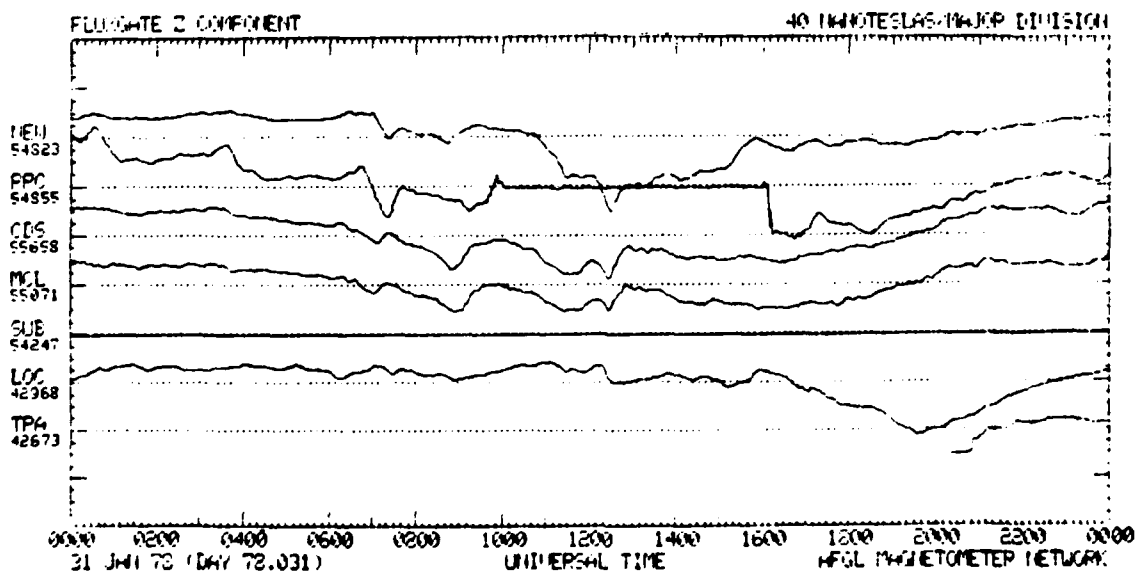
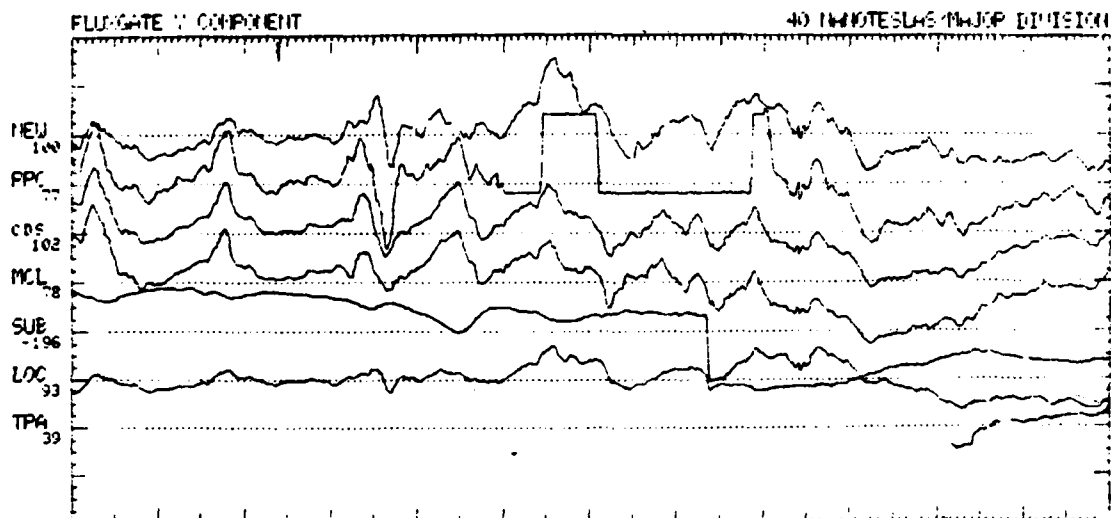
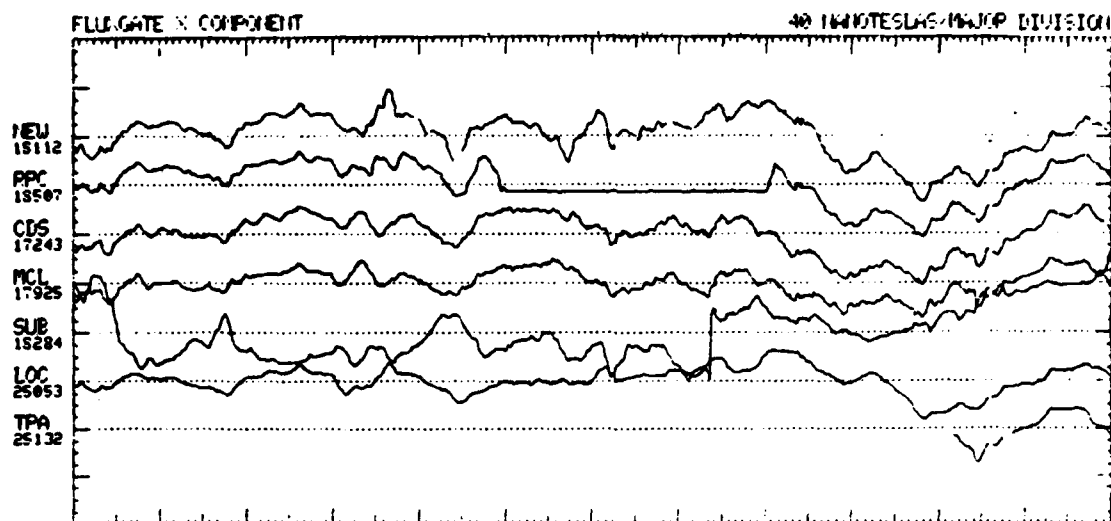
40 NANOTESLAS/MAJOR DIVISION

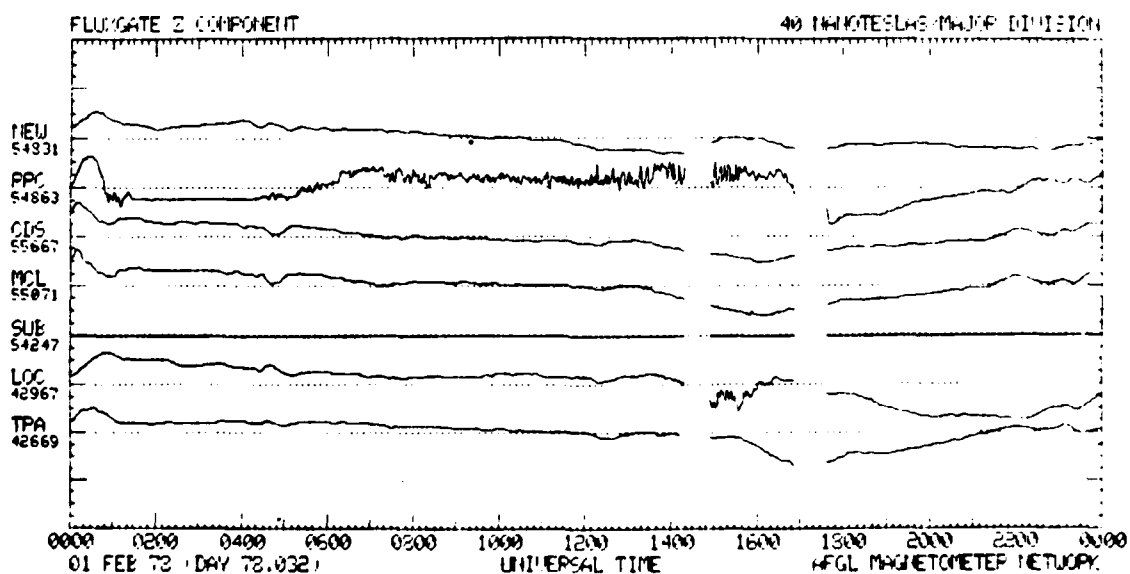
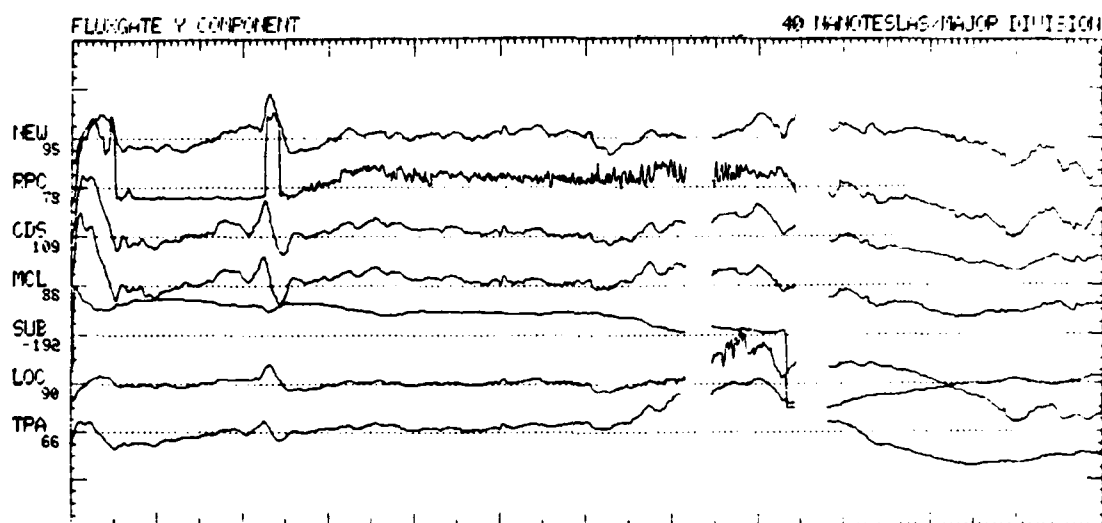
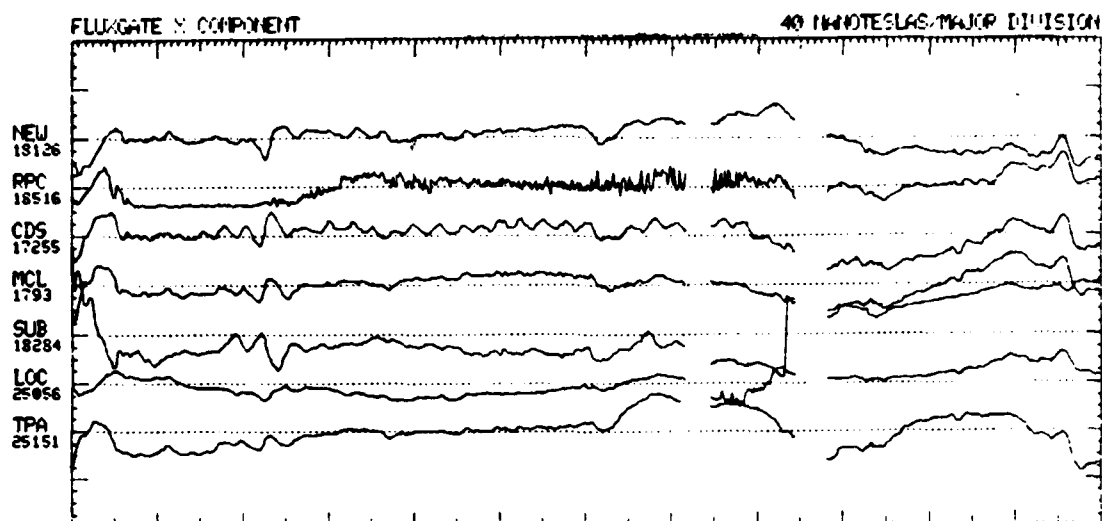
NEW
54826
RPC
54907
CDS
55658
MCL
55079
SUB
54246
LOC
42973

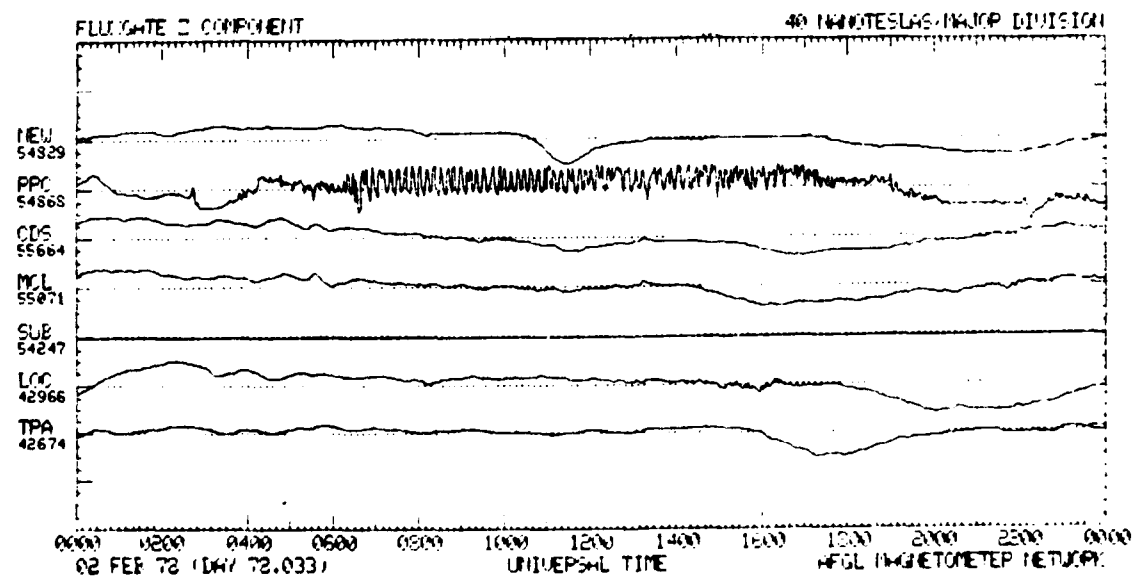
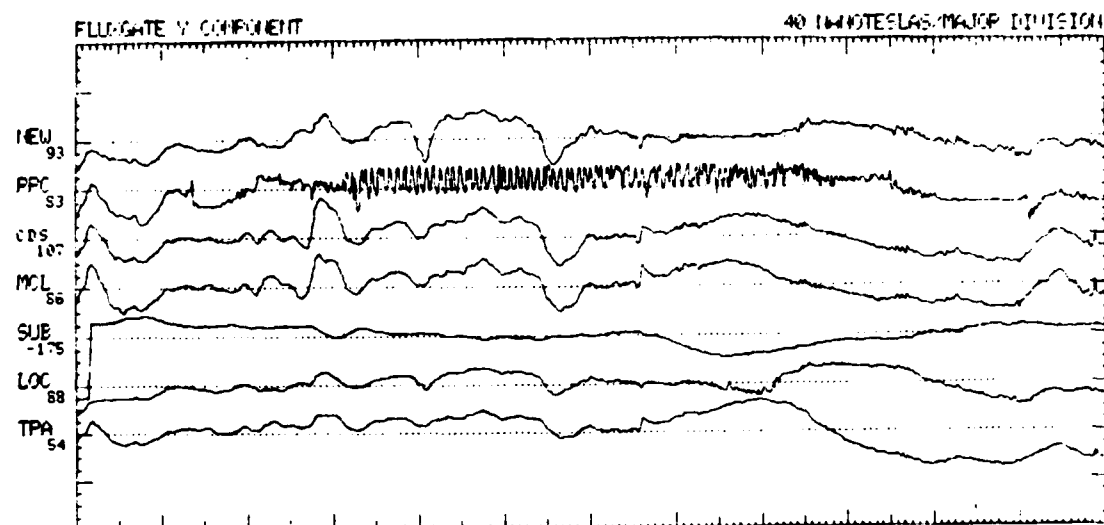
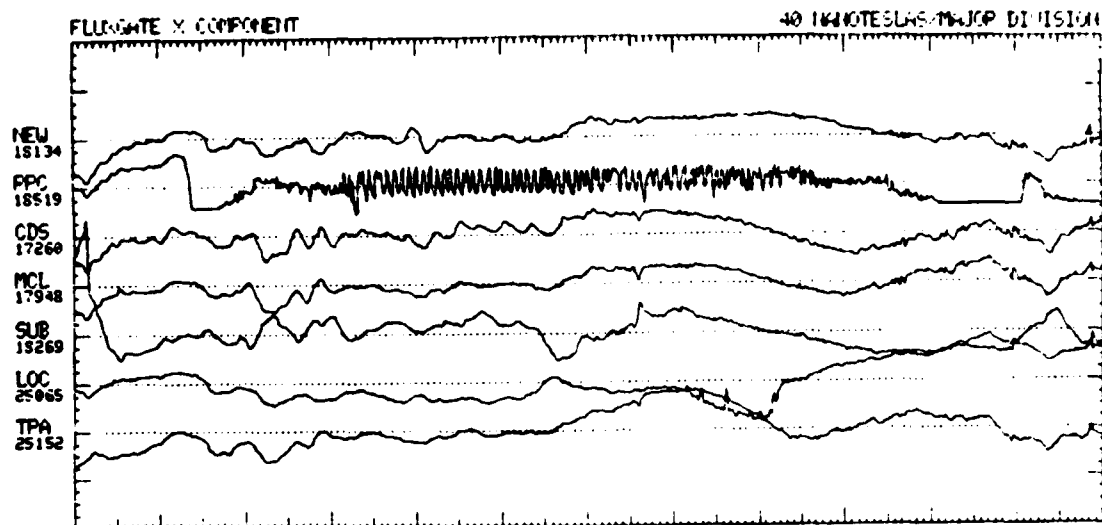
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 JAN 78 (DAY 78.028) UNIVERSAL TIME HFGL MAGNETOMETER NETWORK

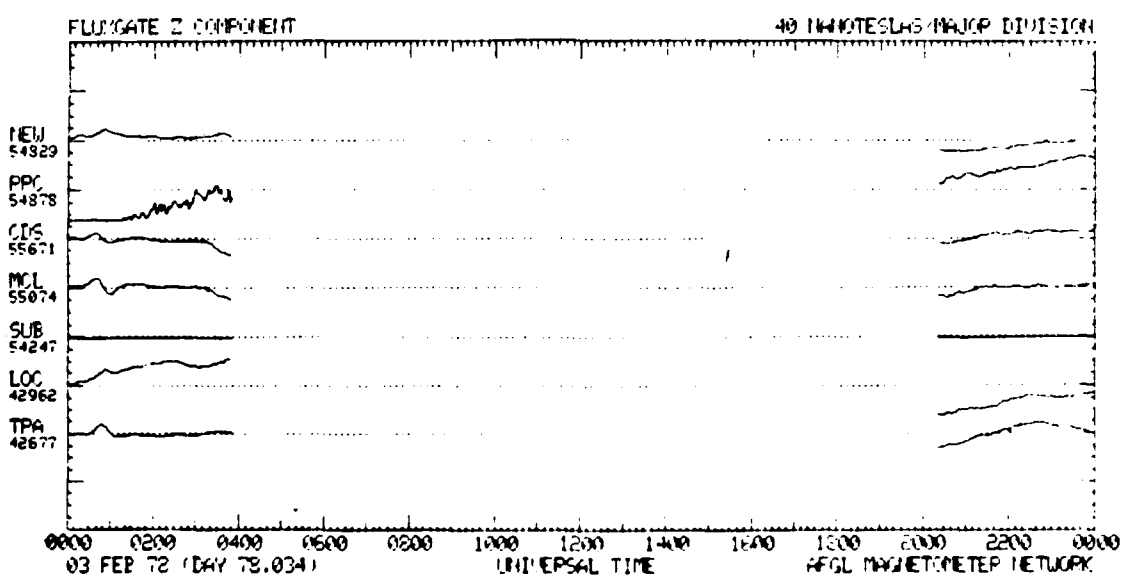
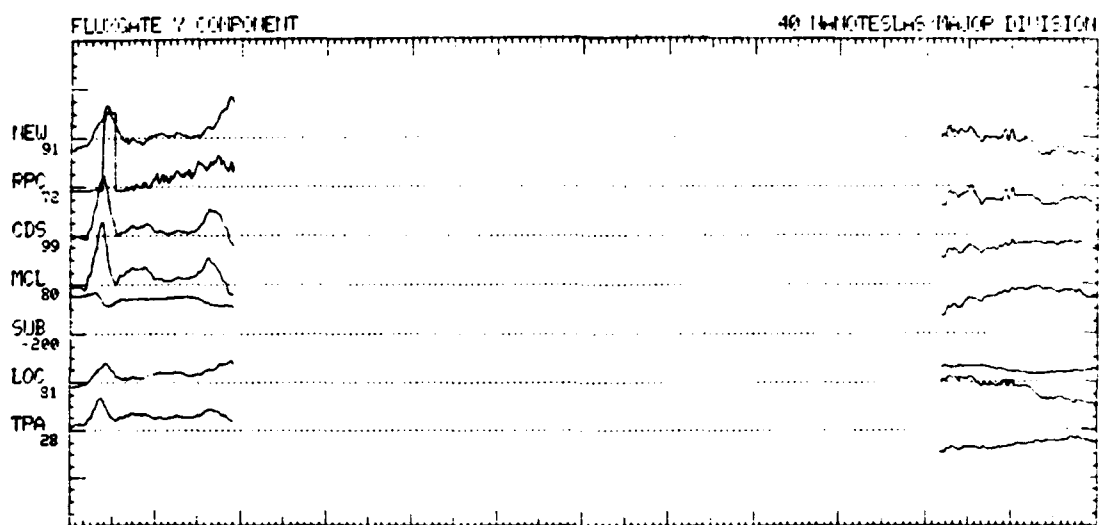
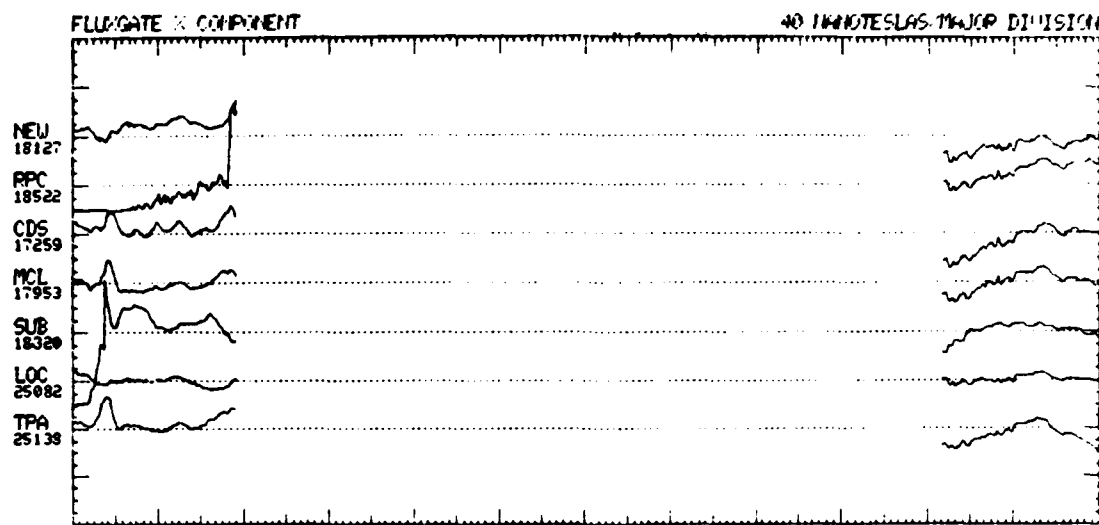


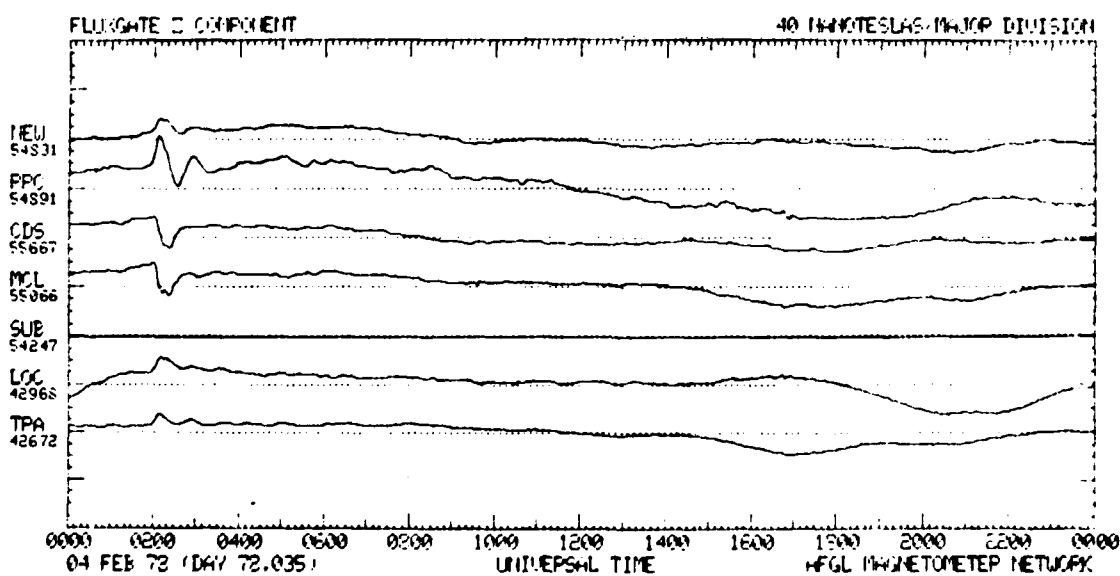
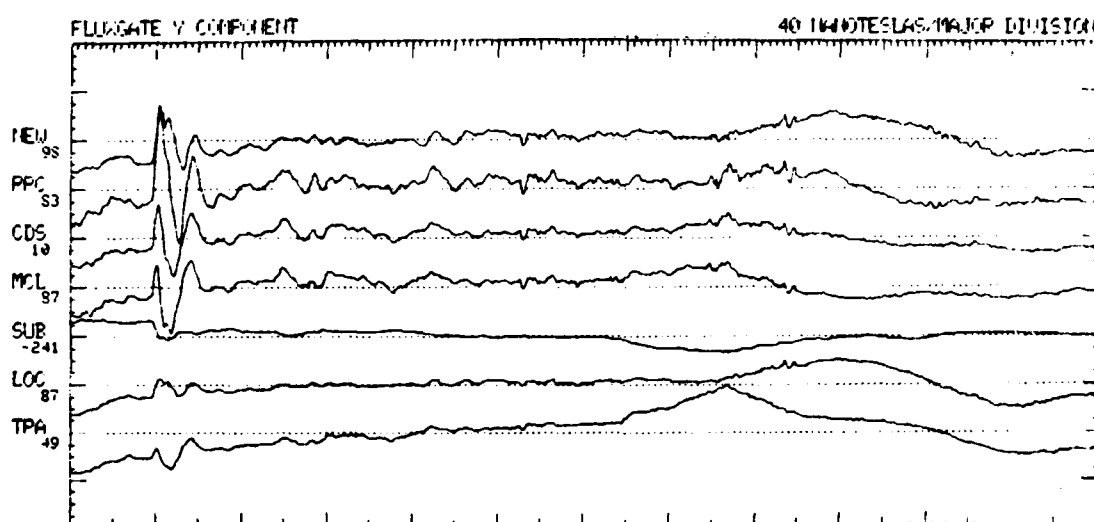
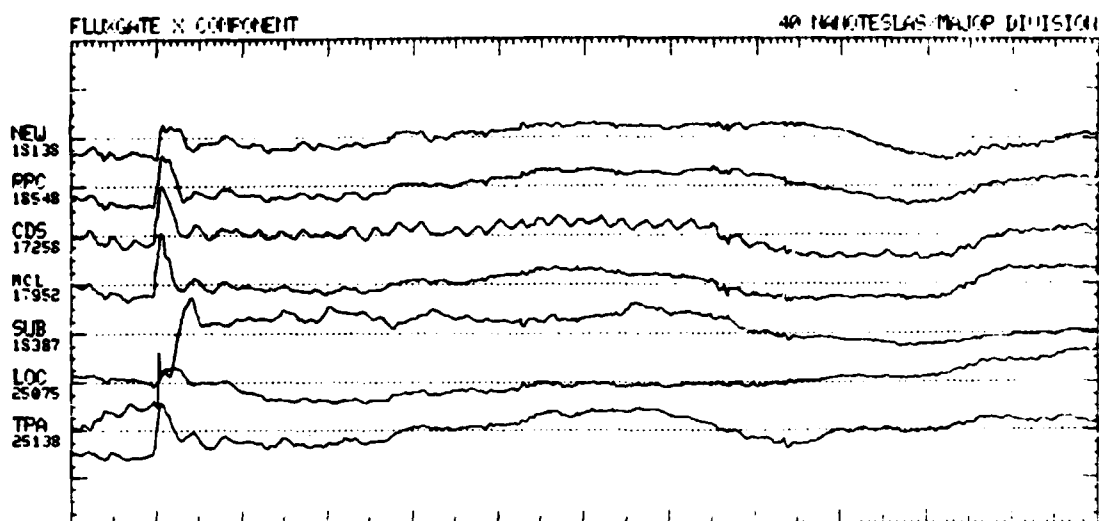




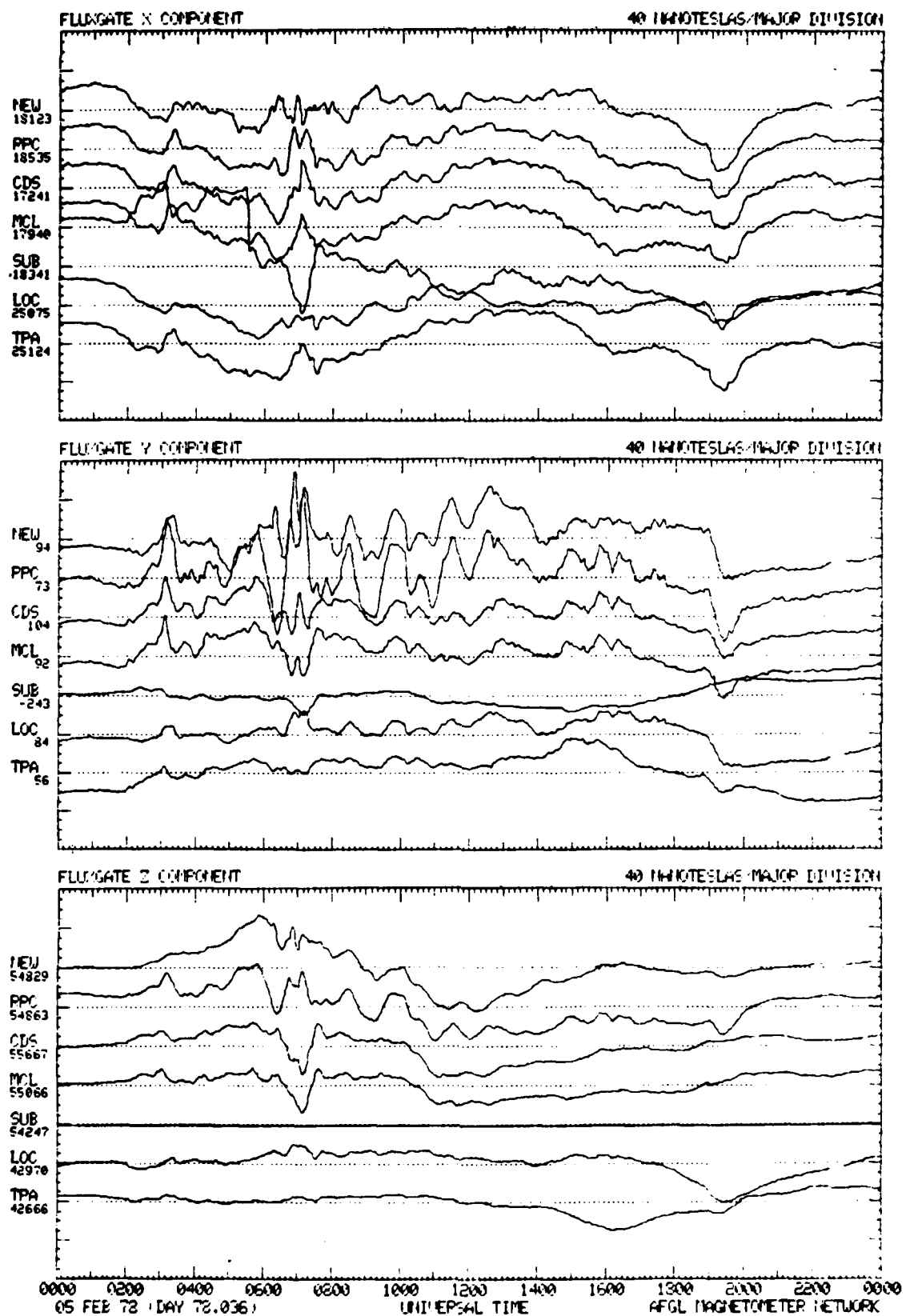


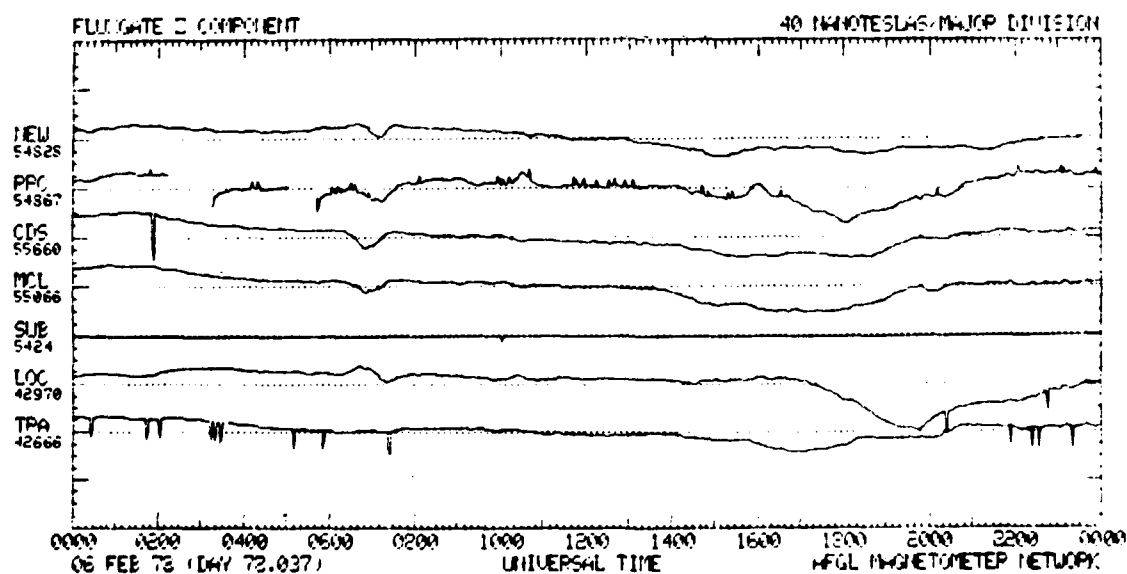
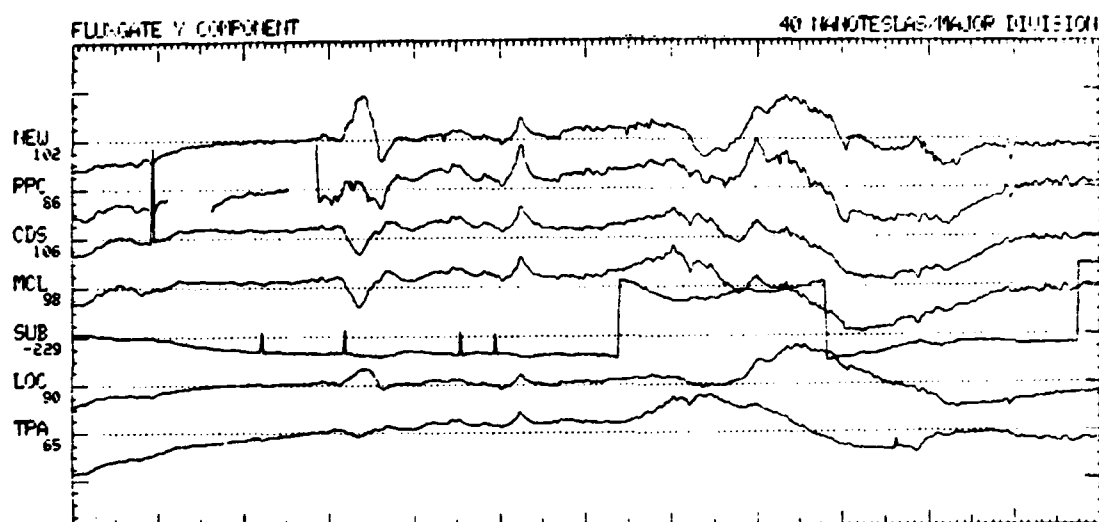
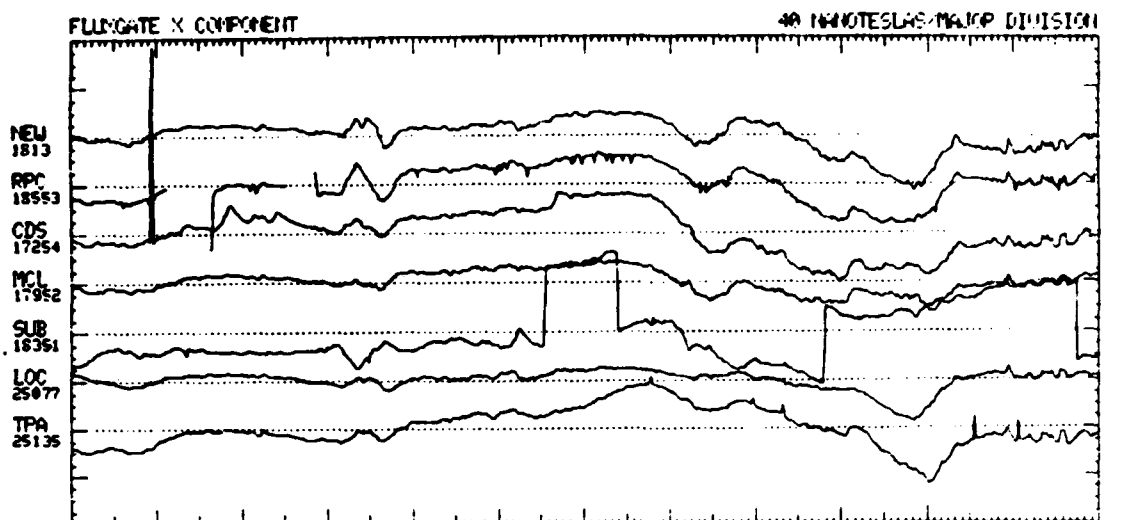






0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
04 FEB 72 (DAY 72.035) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK



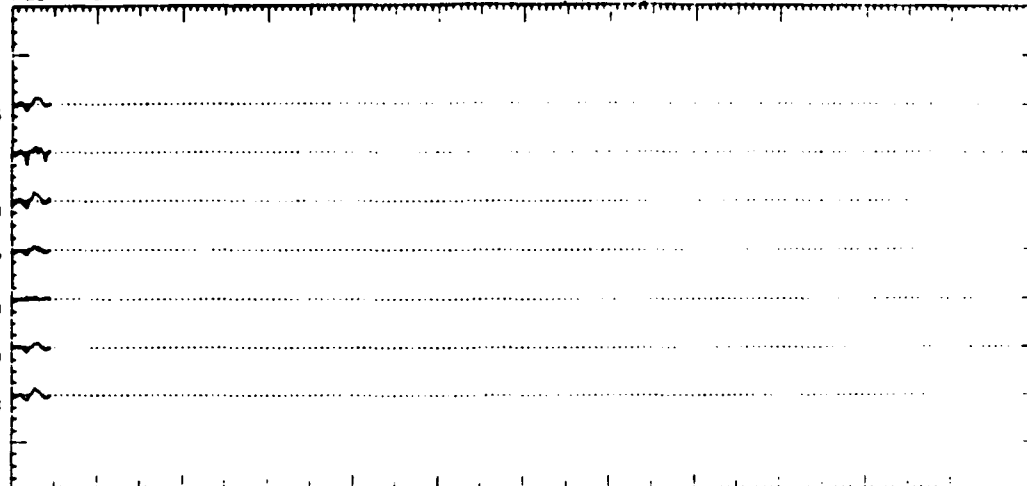


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
06 FEB 73 (DAY 72.037) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK

FLUGATE X COMPONENT

40 INNOTESLAS/MAJOR DIVISION

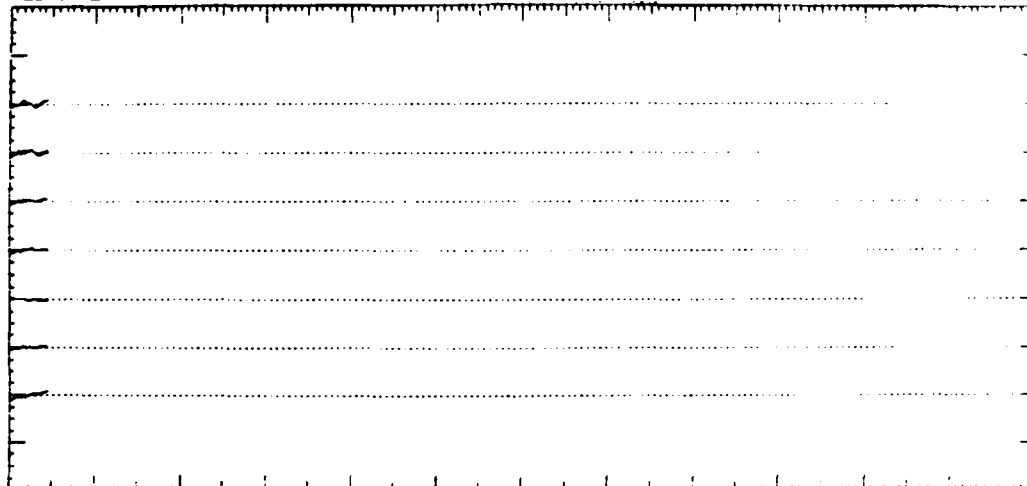
NEU
15135
PPC
15561
CDS
17253
MCL
17957
SUB
18329
LOC
25079
TPA
25128



FLUGATE Y COMPONENT

40 INNOTESLAS/MAJOR DIVISION

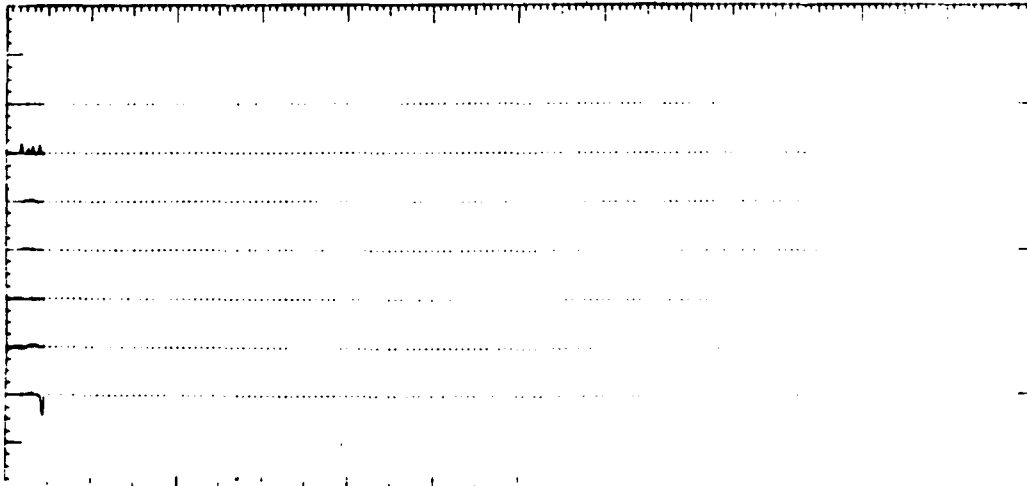
NEU
97
PPC
90
CDS
106
MCL
98
SUB
-173
LOC
85
TPA
62



FLUGATE Z COMPONENT

40 INNOTESLAS/MAJOR DIVISION

NEU
5483
PPC
54878
CDS
55665
MCL
55668
SUB
54247
LOC
42972
TPA
42669



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 FEB 72 (DAY 72.038) UNIVERSAL TIME HFGI MAGNETOMETER NET/JAP

FLIGHT X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
15135
RPC
18561
CDS
17253
MCL
17957
SUB
18329
LOC
25079
TPA
25128

FLIGHT Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

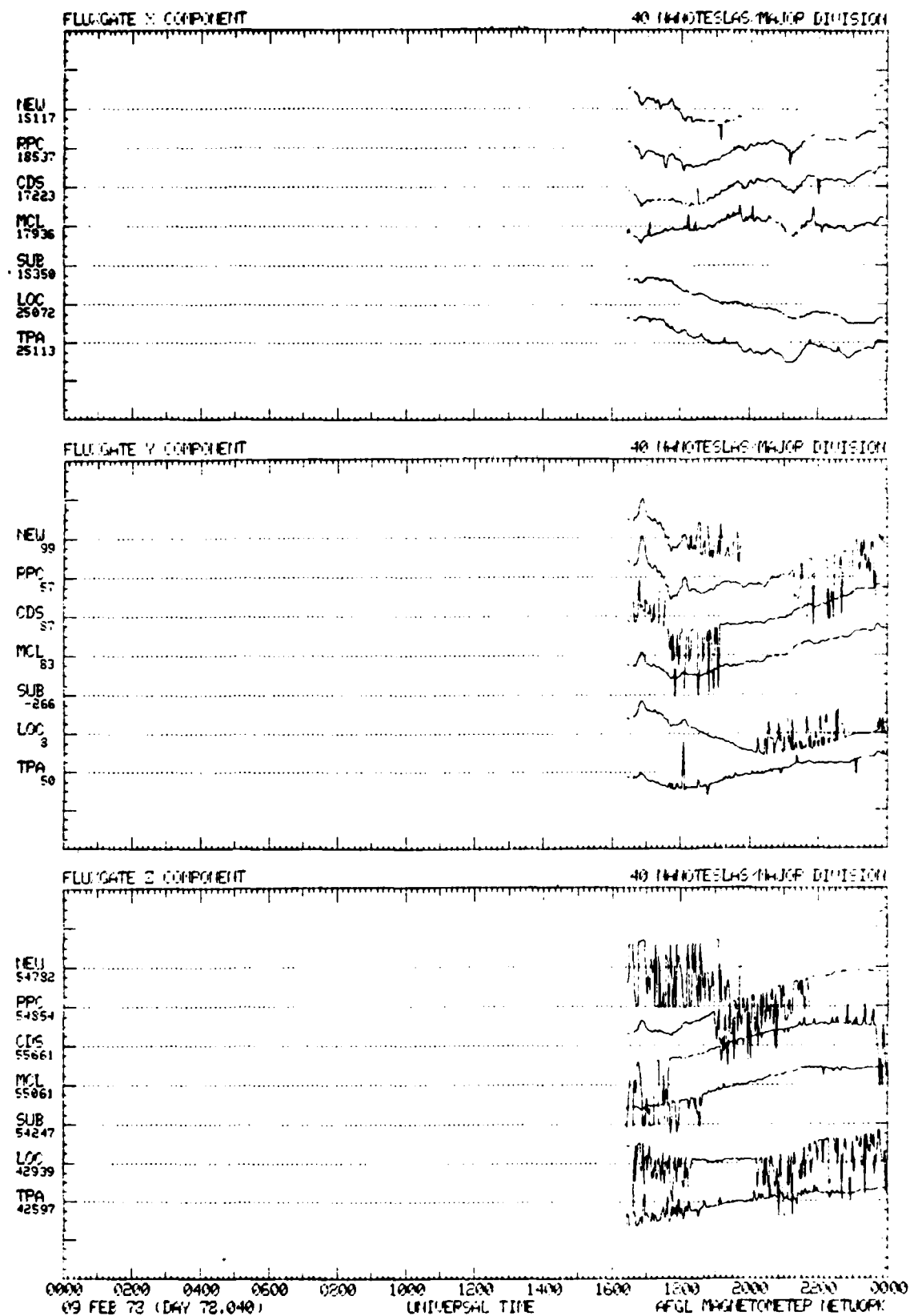
NEW
97
RPC
90
CDS
106
MCL
98
SUB
-173
LOC
85
TPA
62

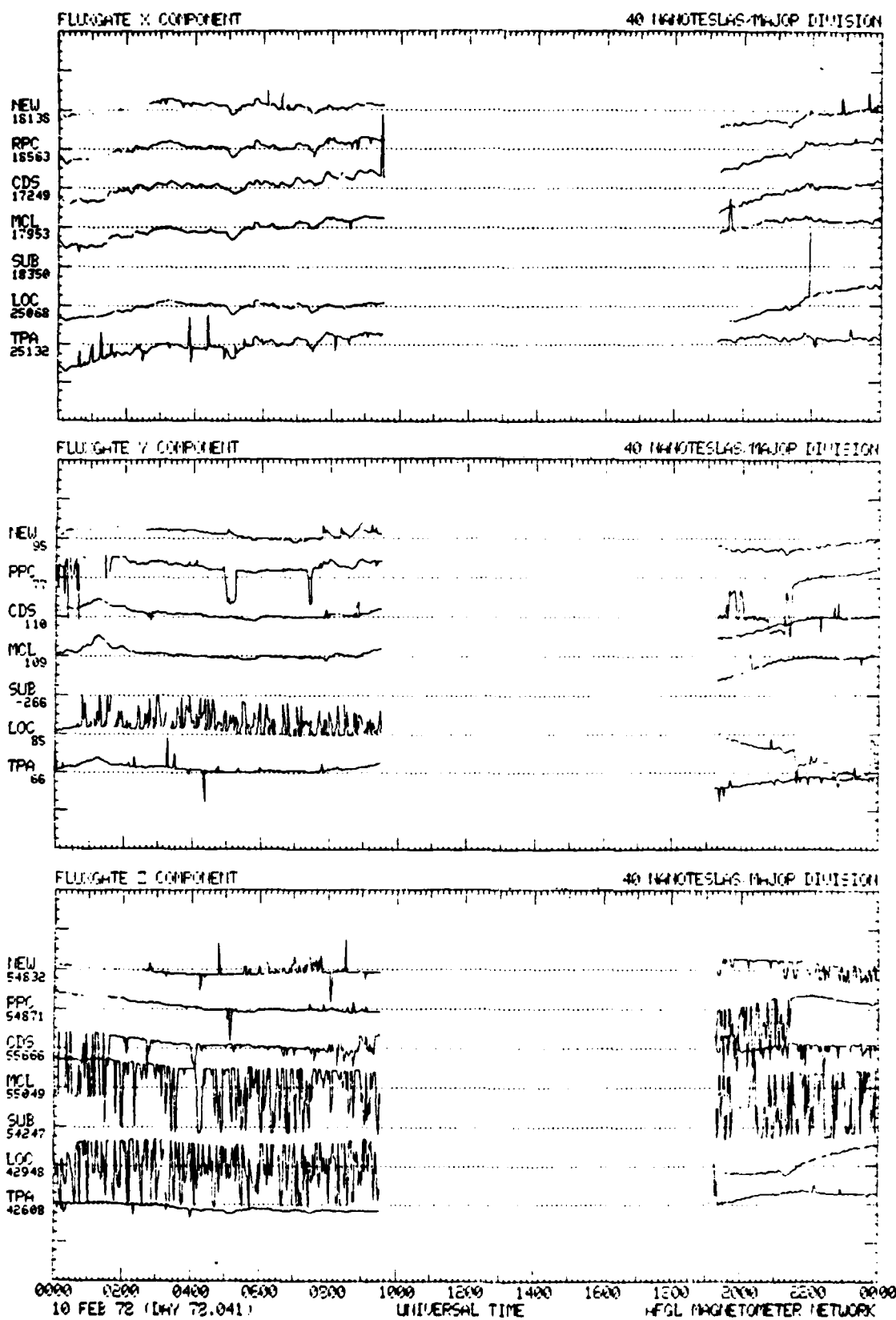
FLIGHT Z COMPONENT

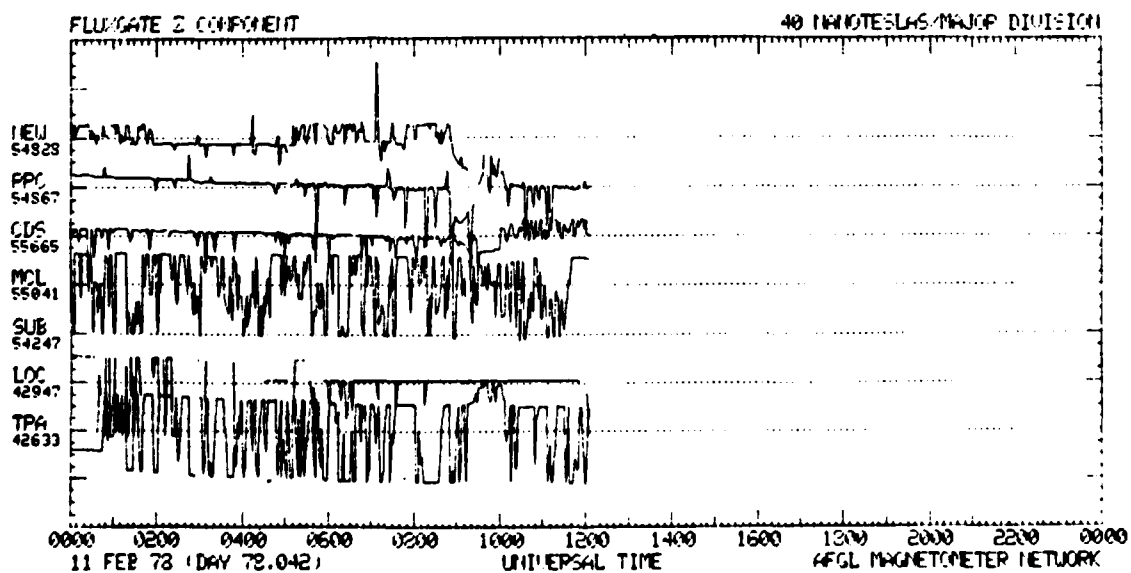
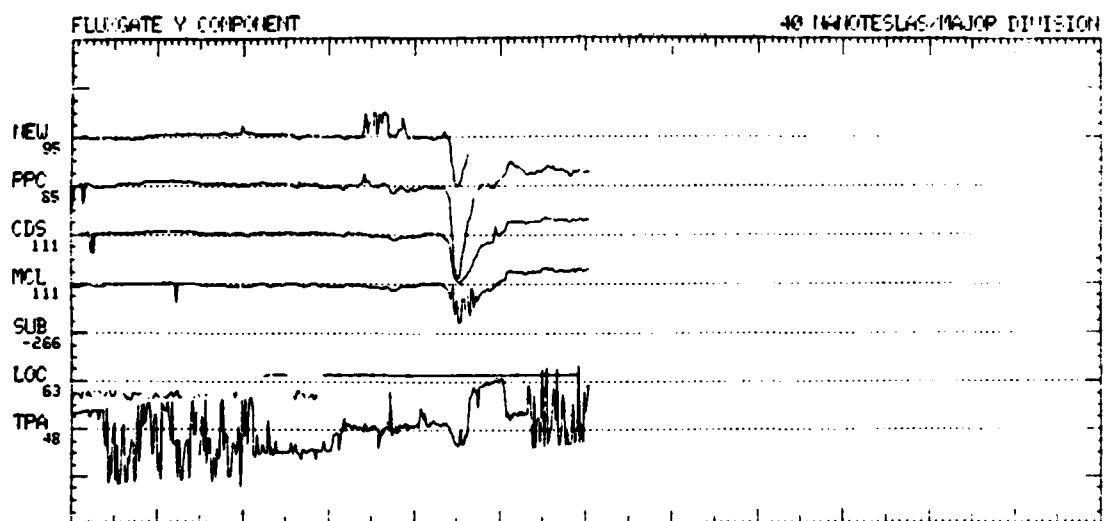
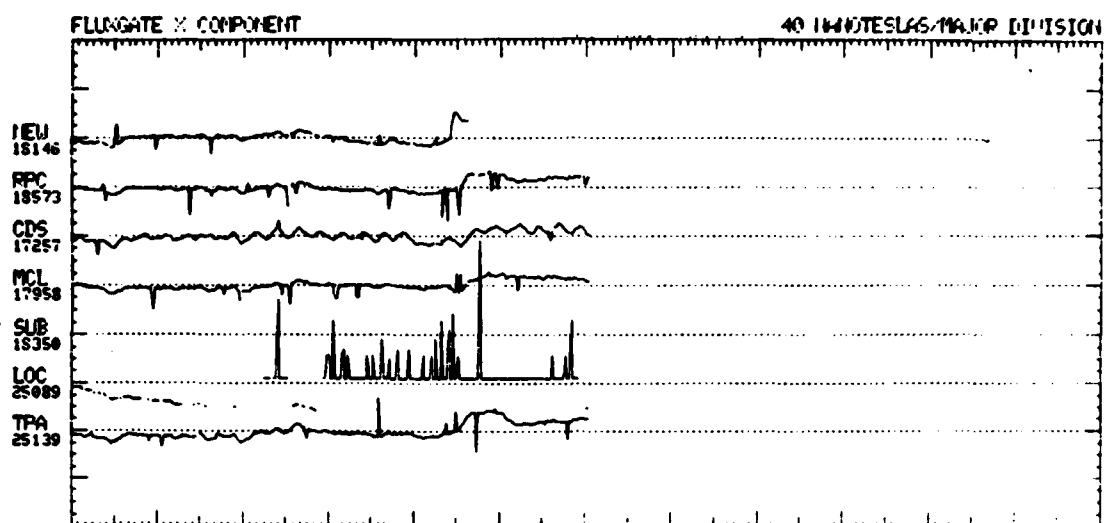
40 NANOTESLAS/MAJOR DIVISION

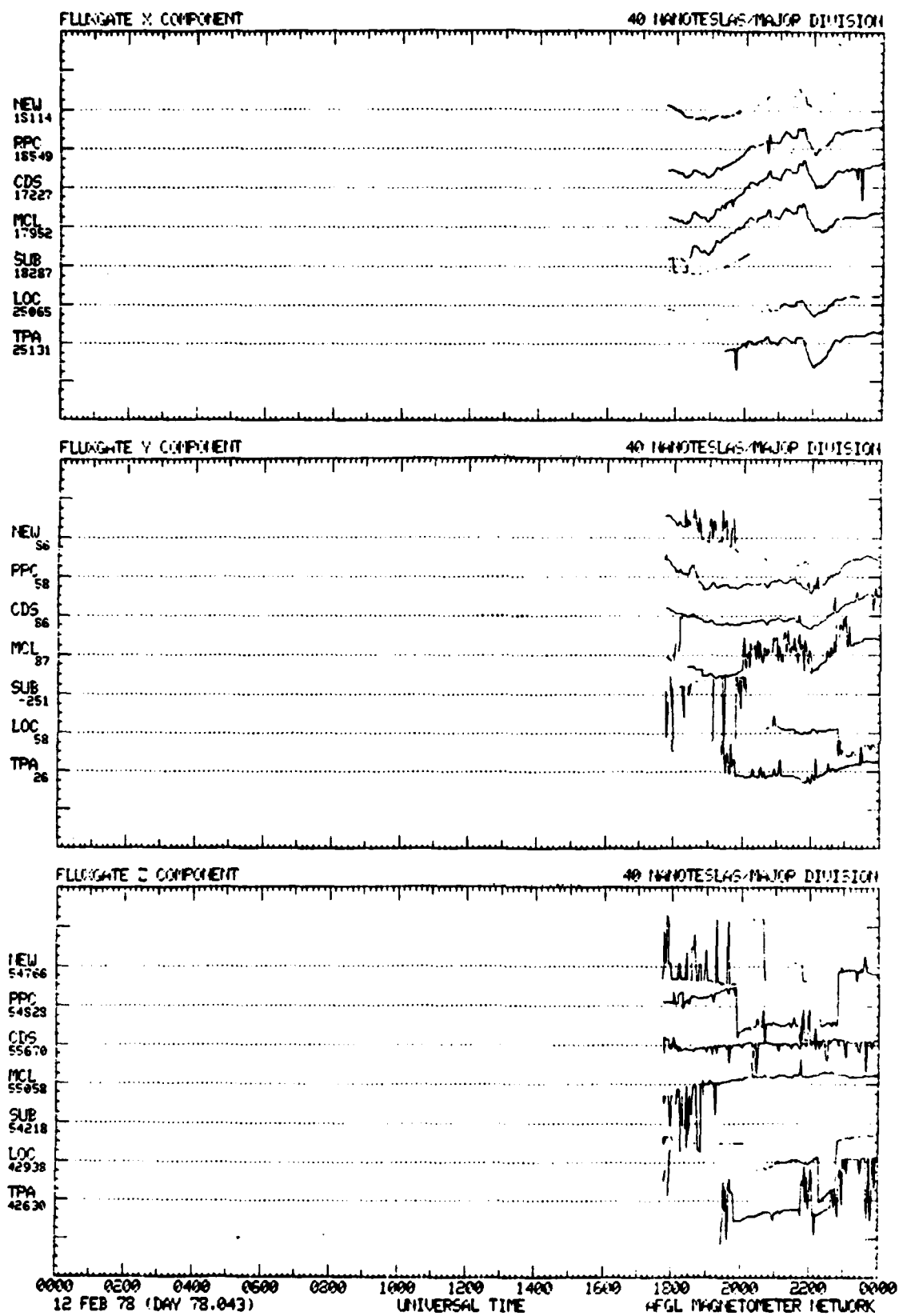
NEW
54831
RPC
54878
CDS
55665
MCL
55068
SUB
54247
LOC
42972
TPA
42669

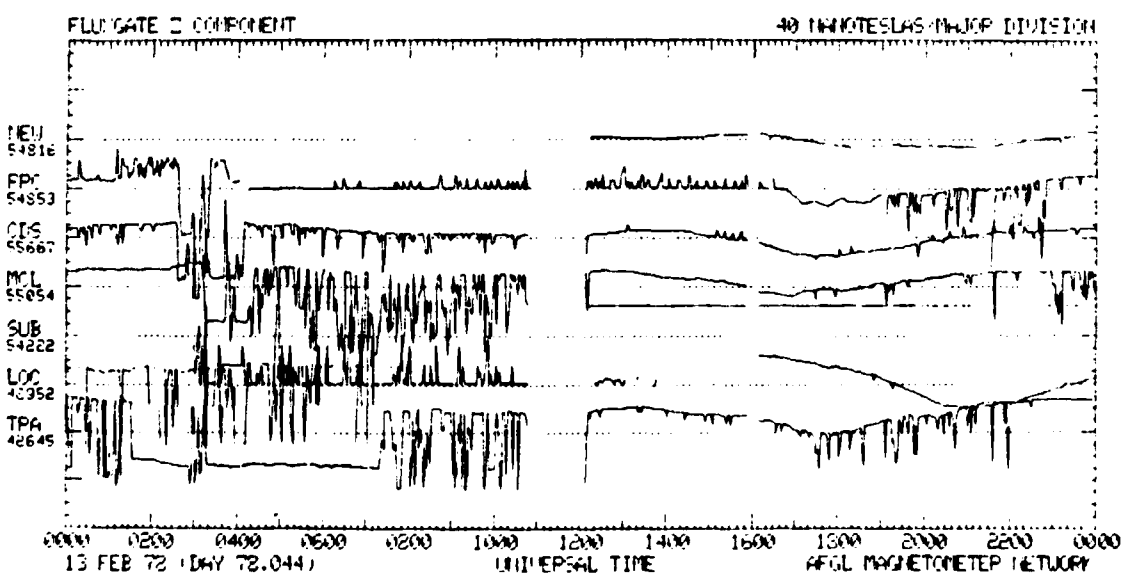
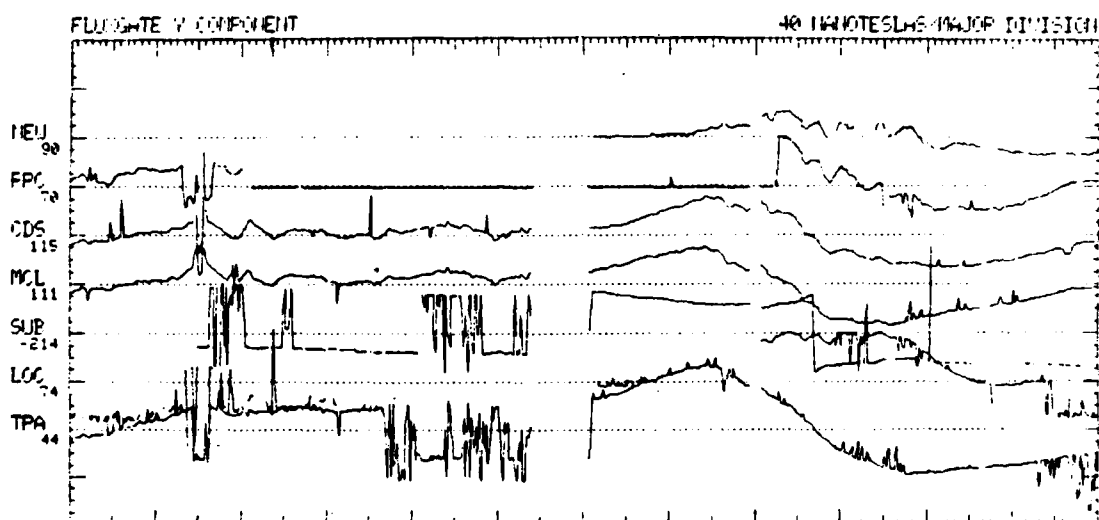
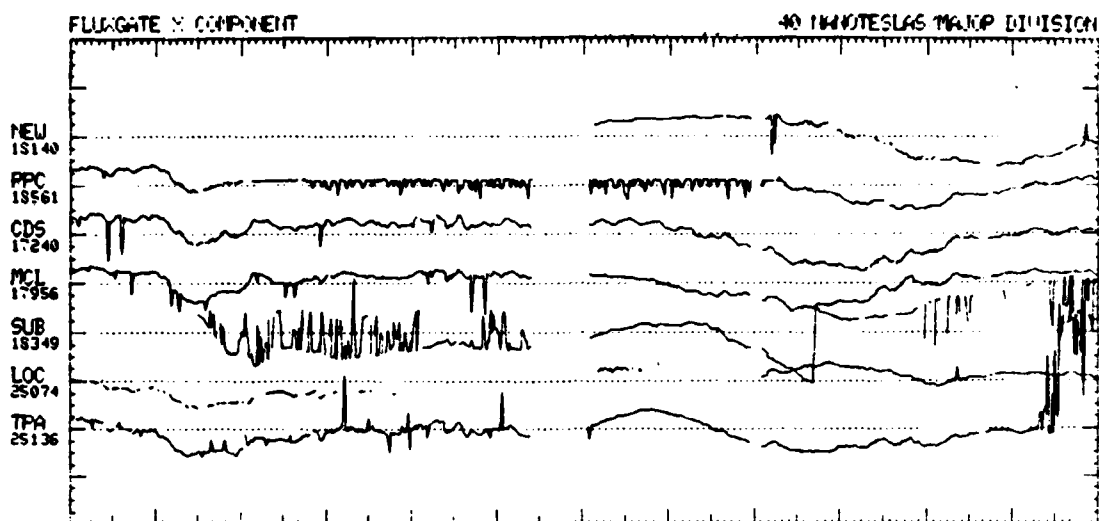
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08 FEB 72 (DAY 72.039) UNIVERSAL TIME HFGL MAGNETOMETER NETWORK



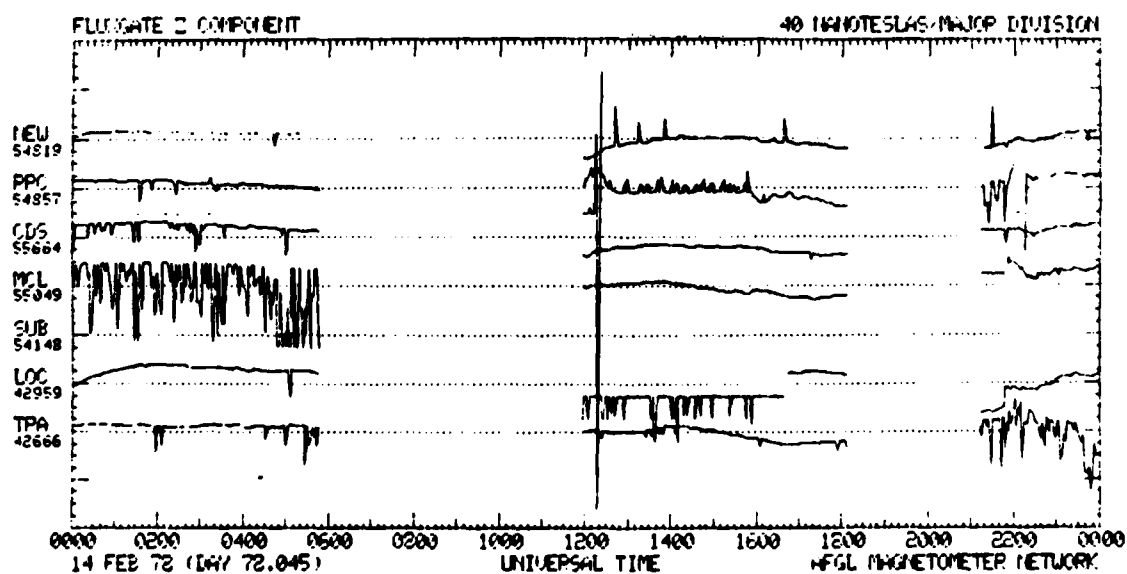
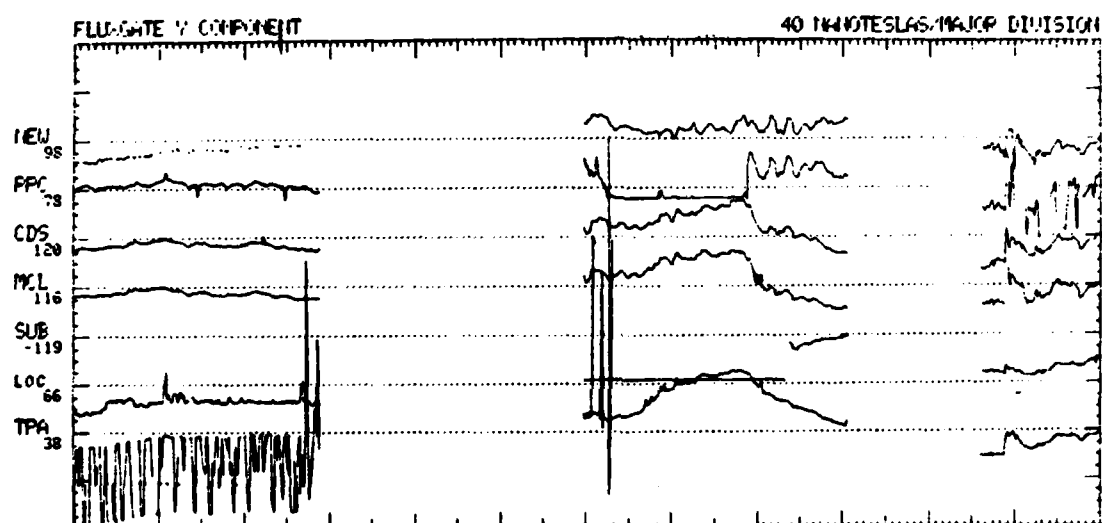
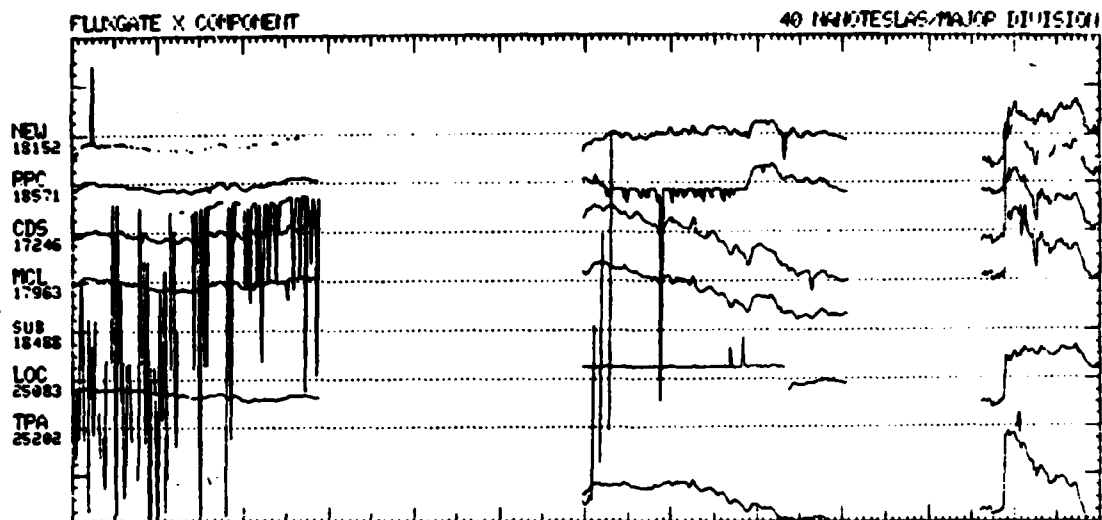


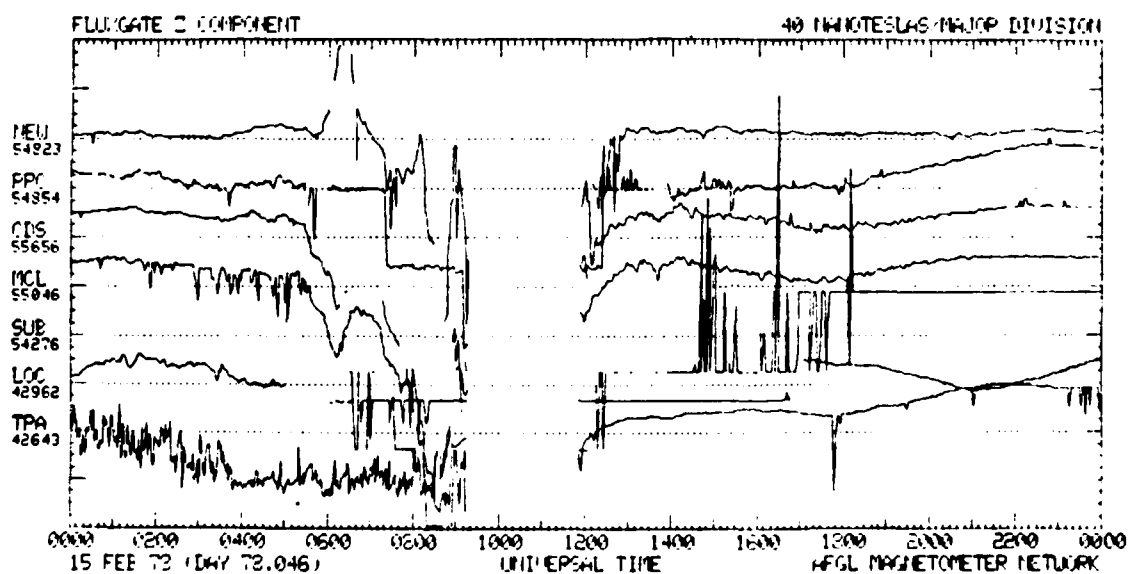
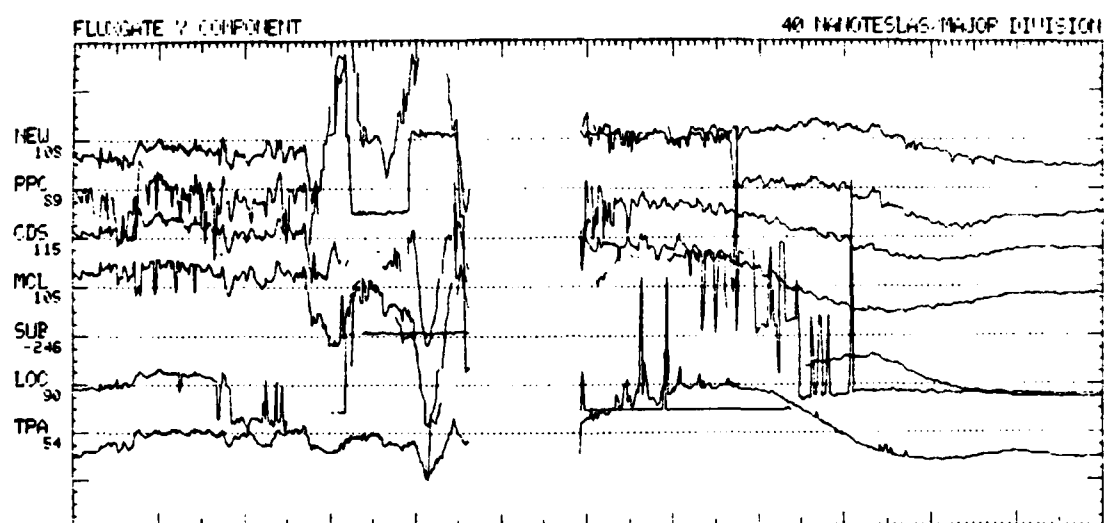
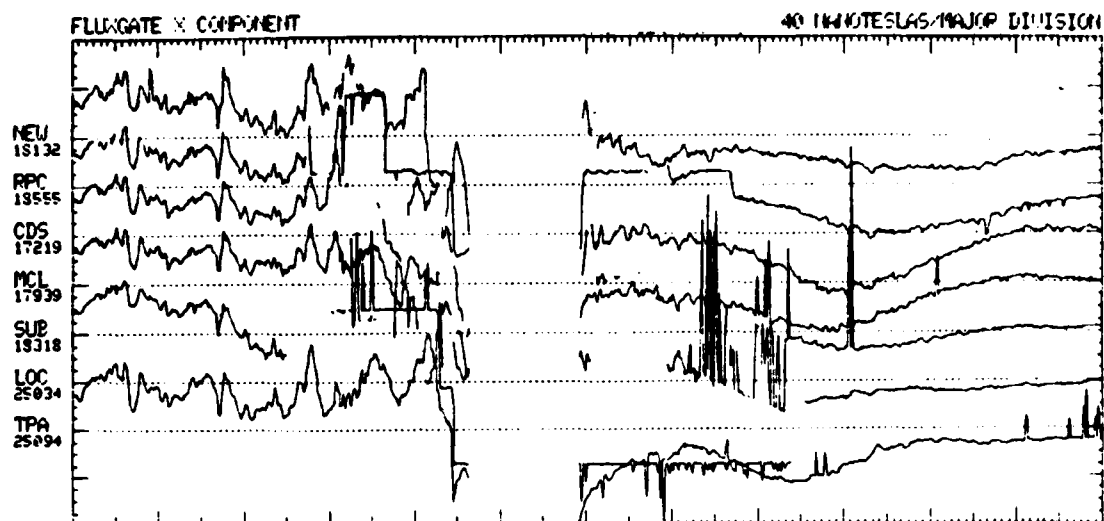






0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 13 FEB 72 (DAY 72.044) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

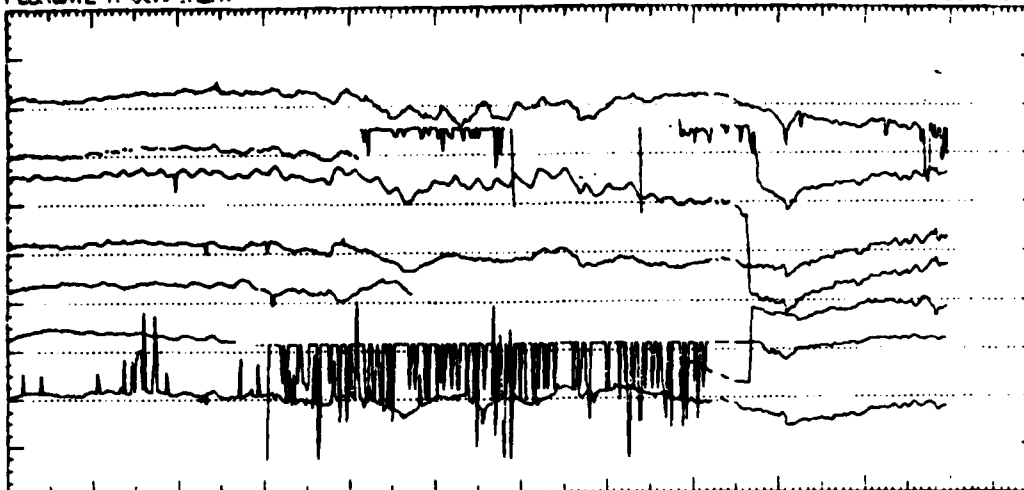




FLUNGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

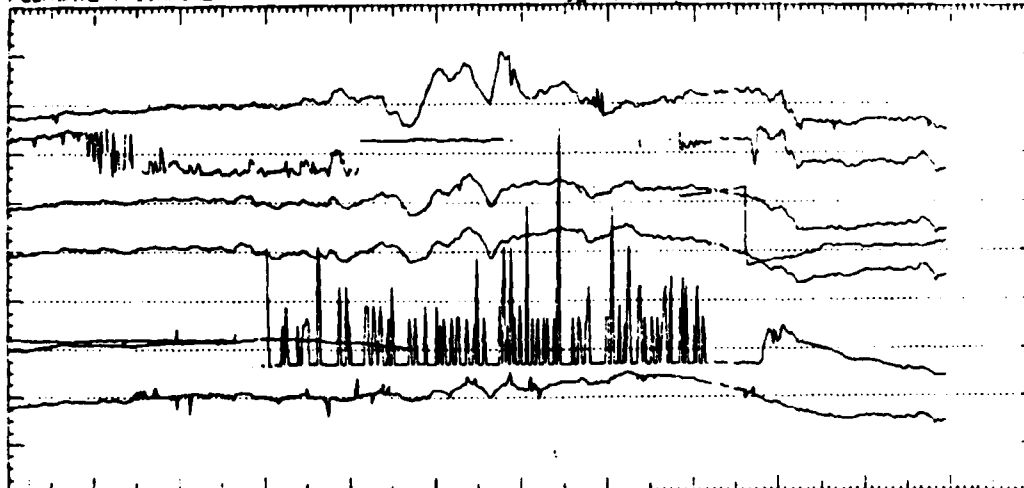
NEW
18115
RPC
18544
CDS
17200
MCL
17933
SUB
18313
LOC
25023
TPA
25083



FLUNGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

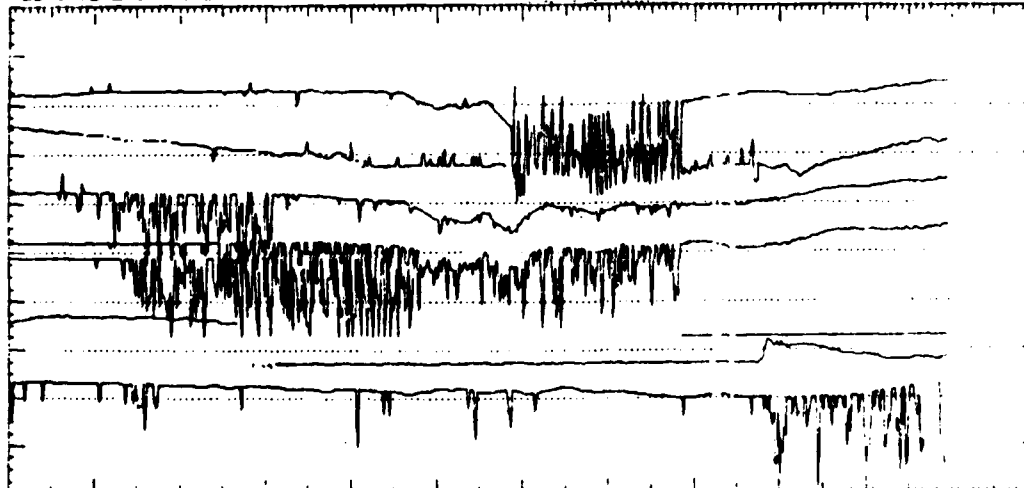
NEW
98
RPC
59
CDS
112
MCL
104
SUB
-263
LOC
81
TPA
42



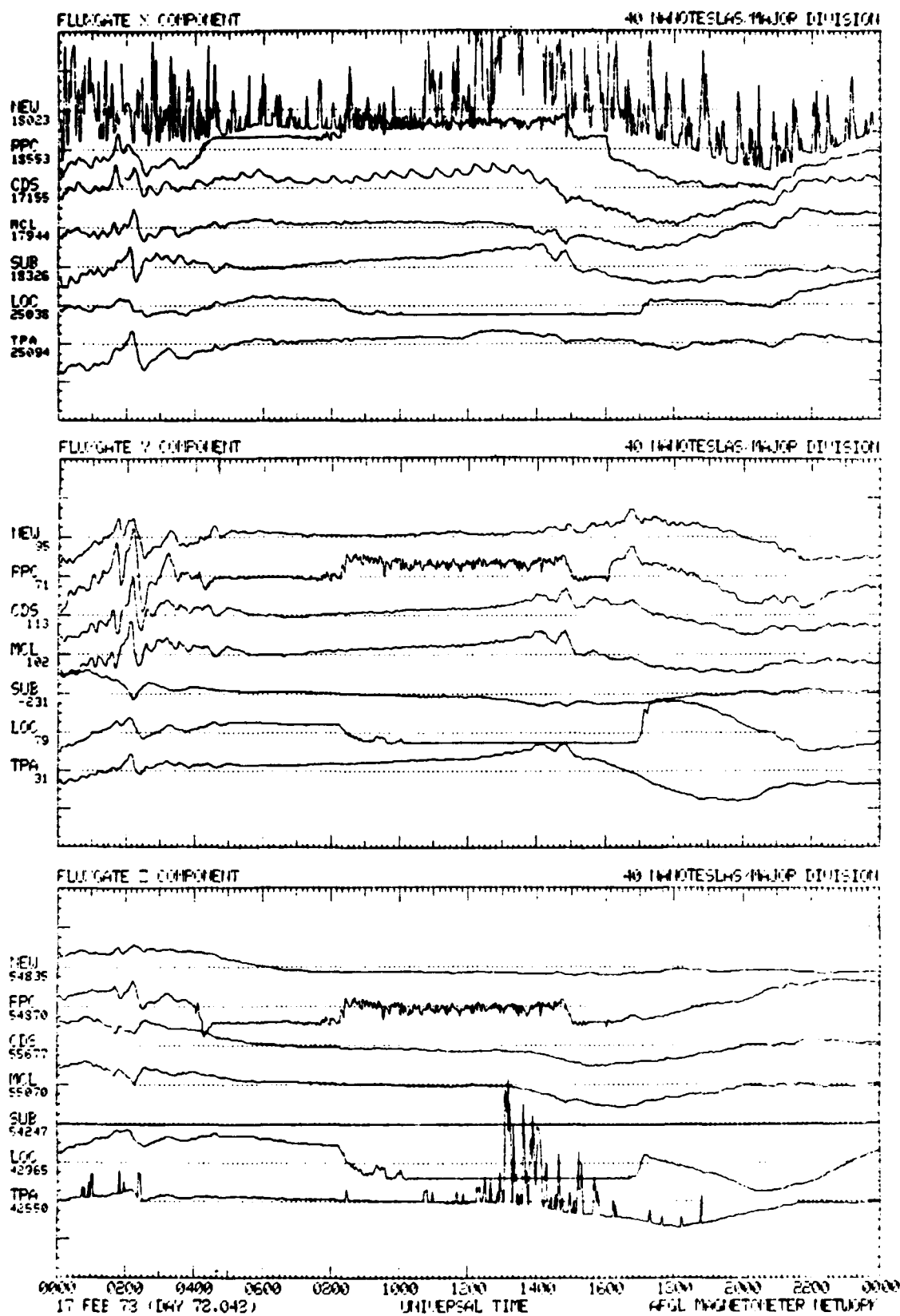
FLUNGATE Z COMPONENT

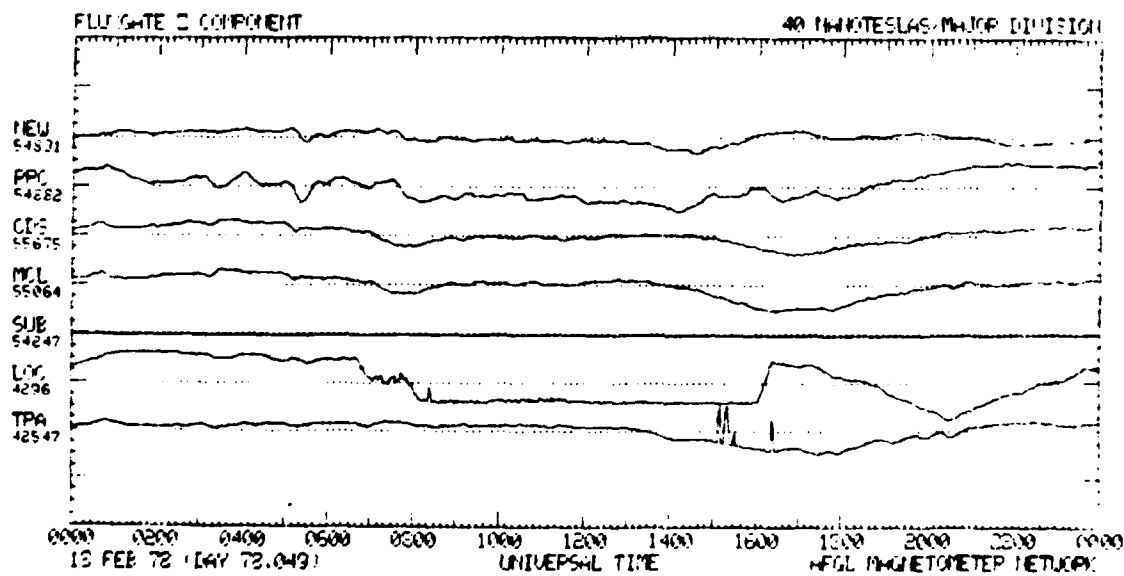
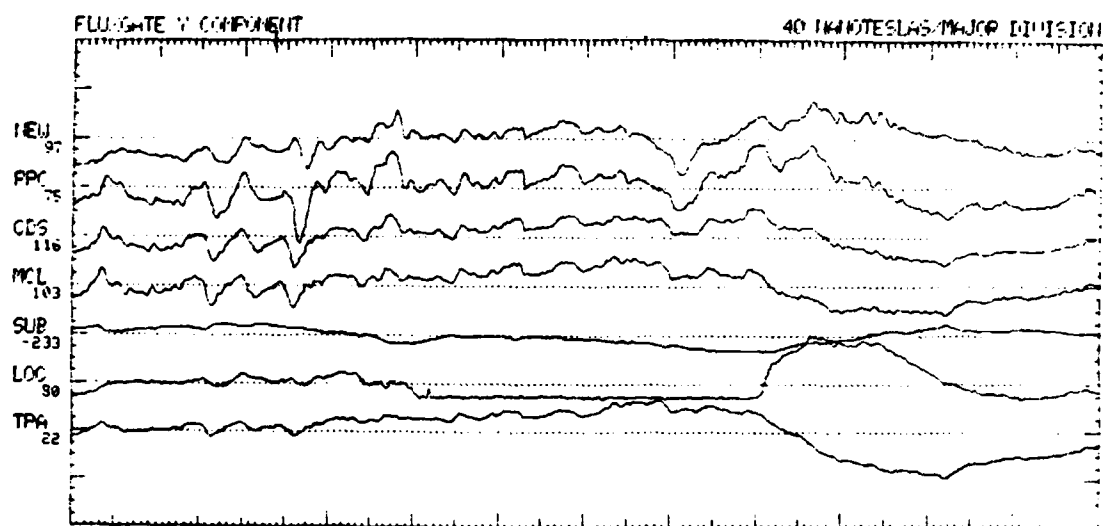
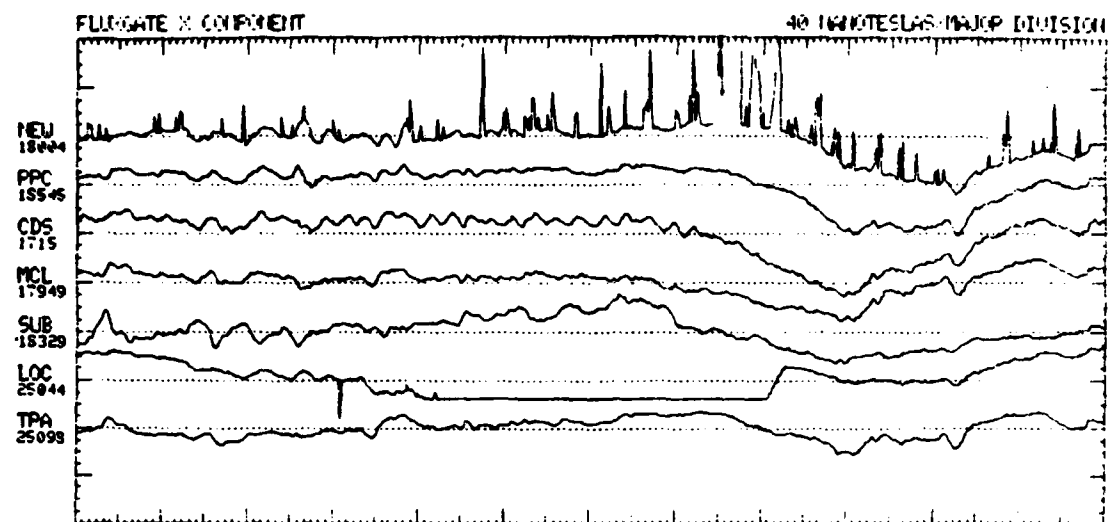
40 NANOTESLAS/MAJOR DIVISION

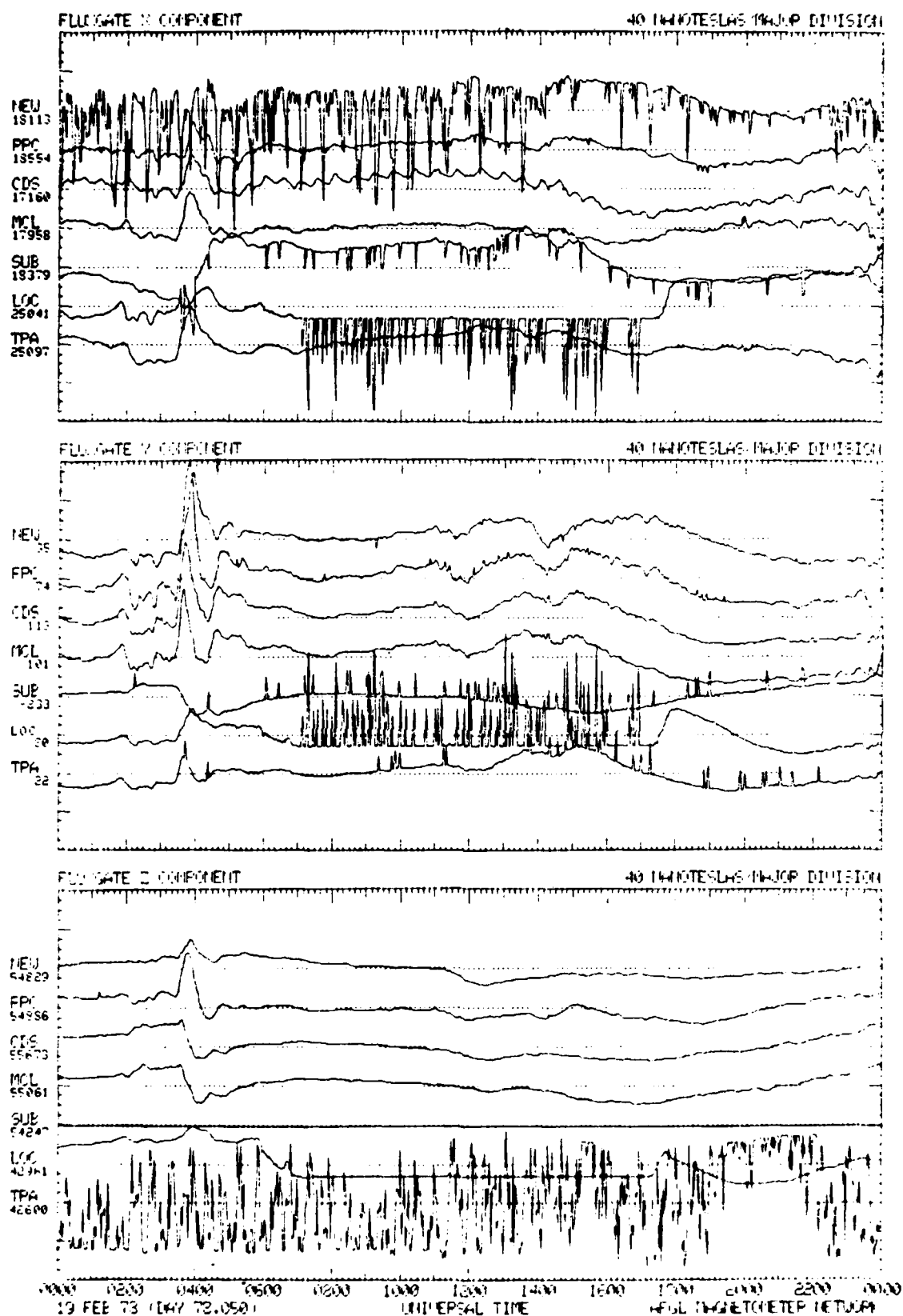
NEW
54521
RPC
54563
CDS
55672
MCL
55062
SUB
54275
LOC
42960
TPA
42666

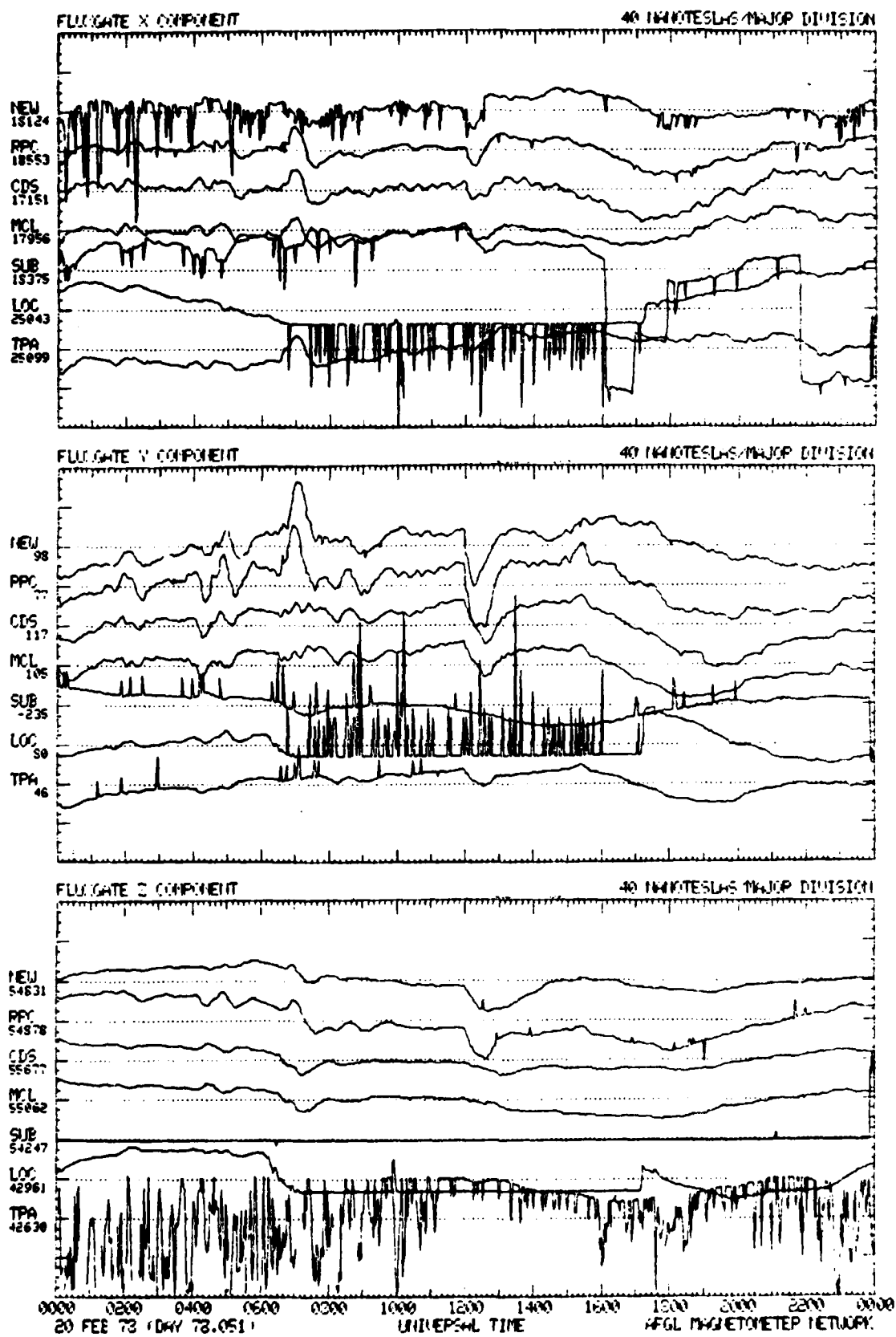


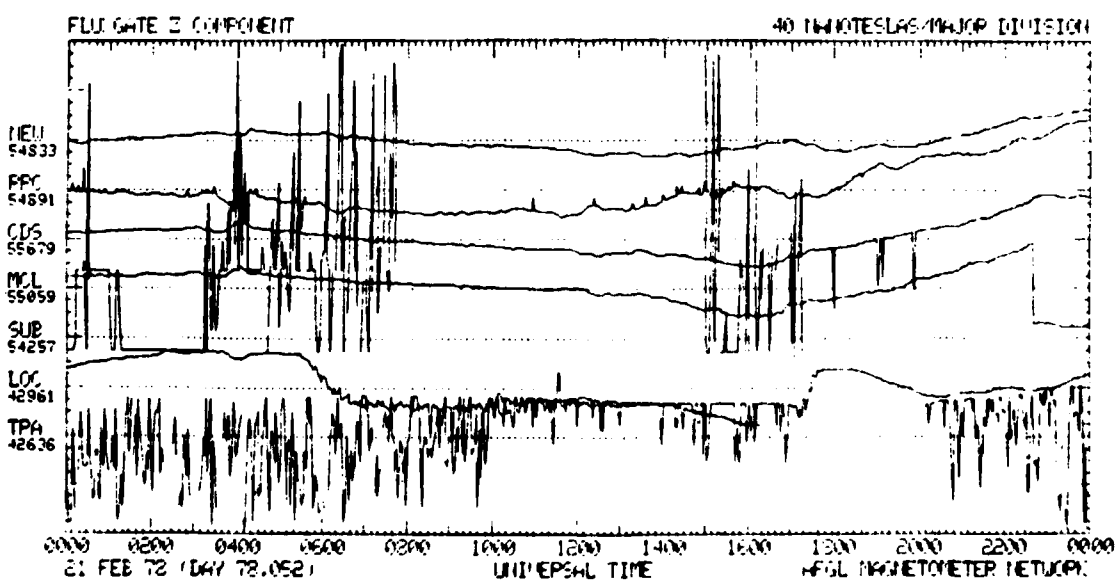
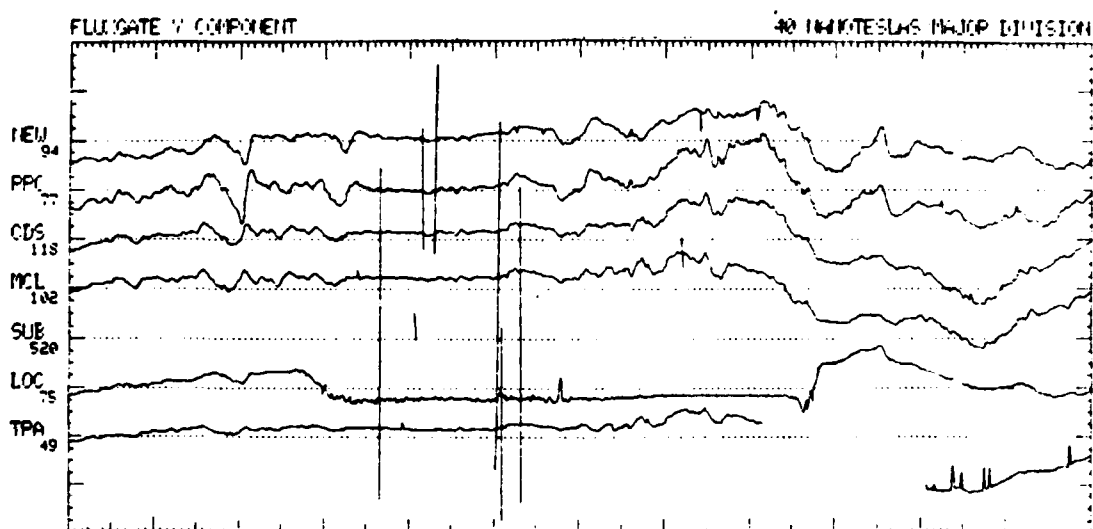
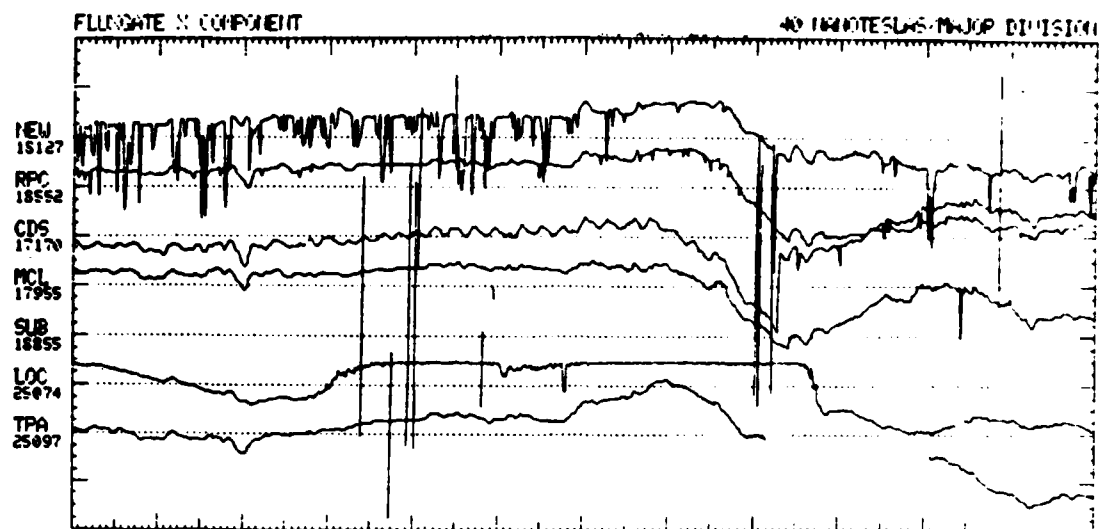
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16 FEB 78 (DAY 78.047) UNIVERSAL TIME HGL MAGNETOMETER NETWORK

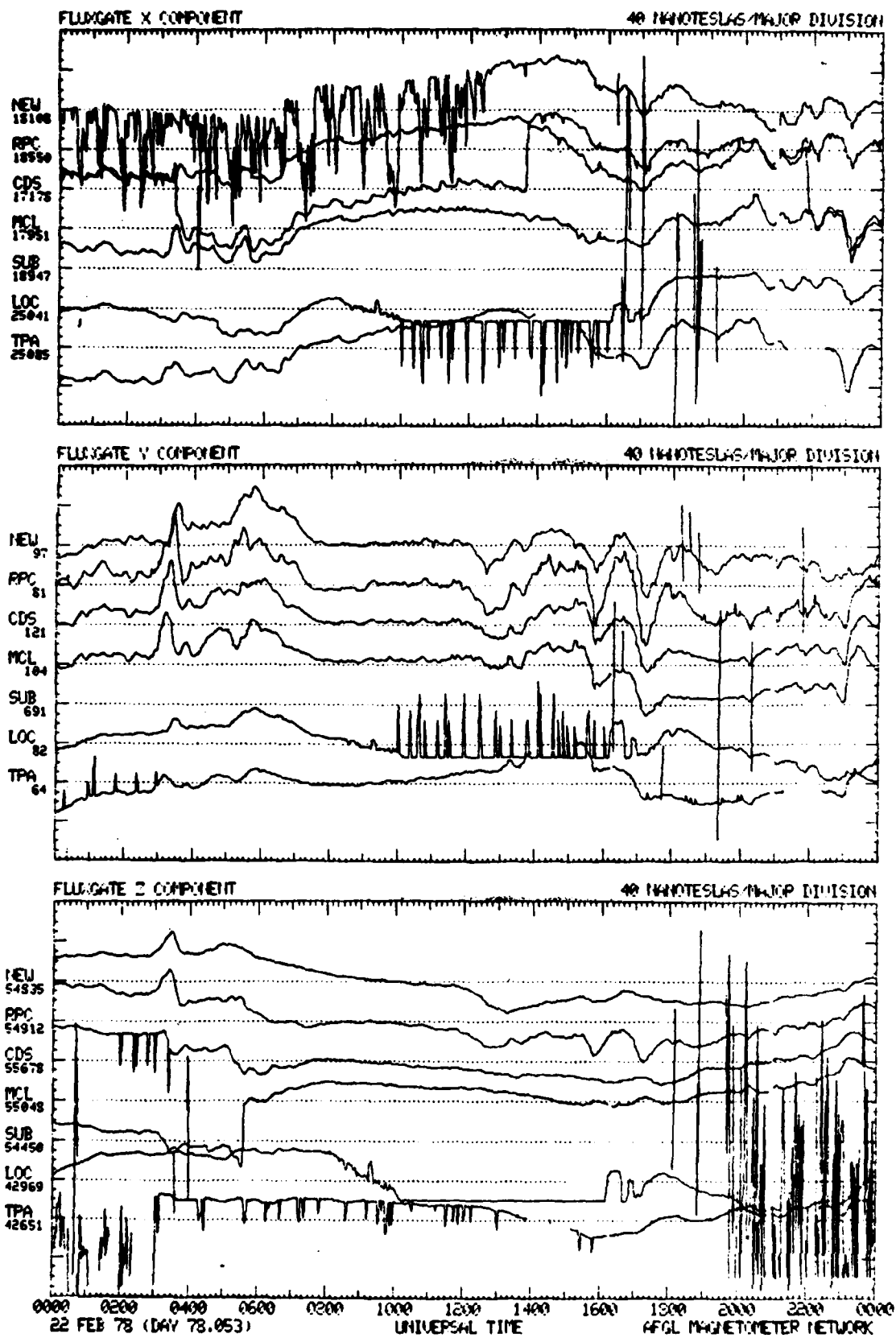


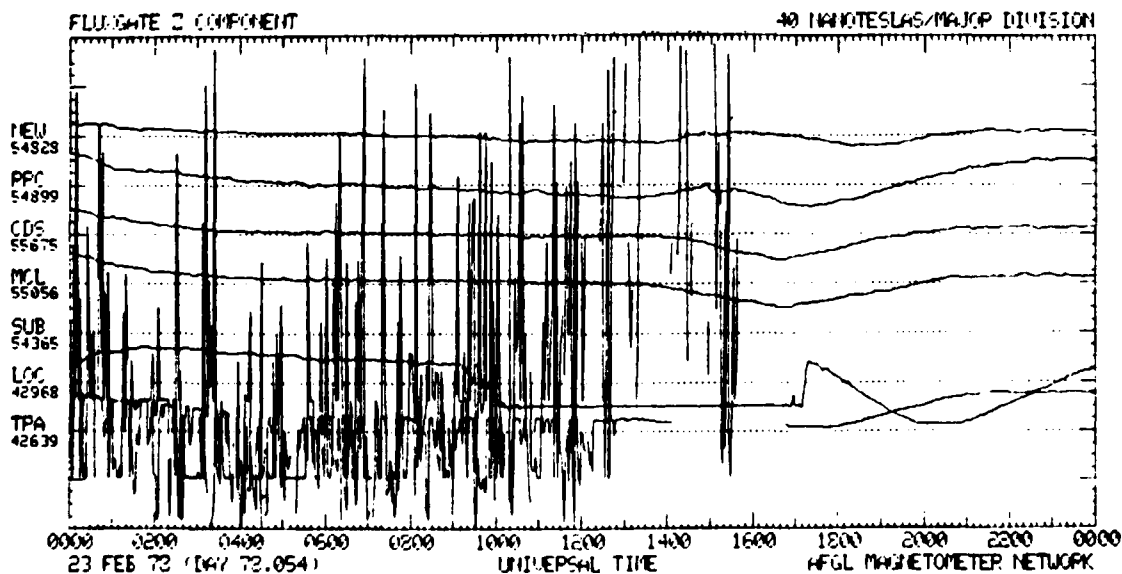
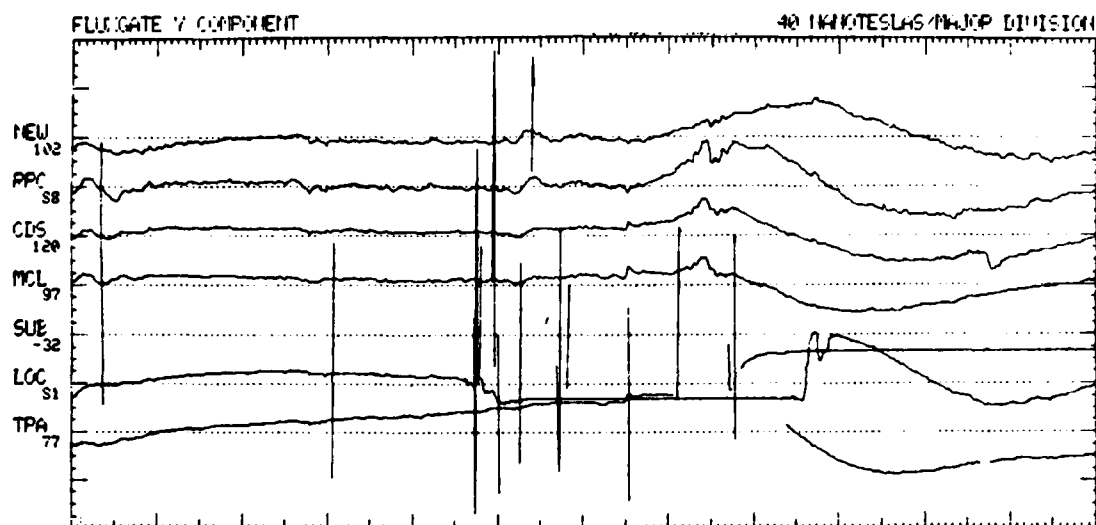
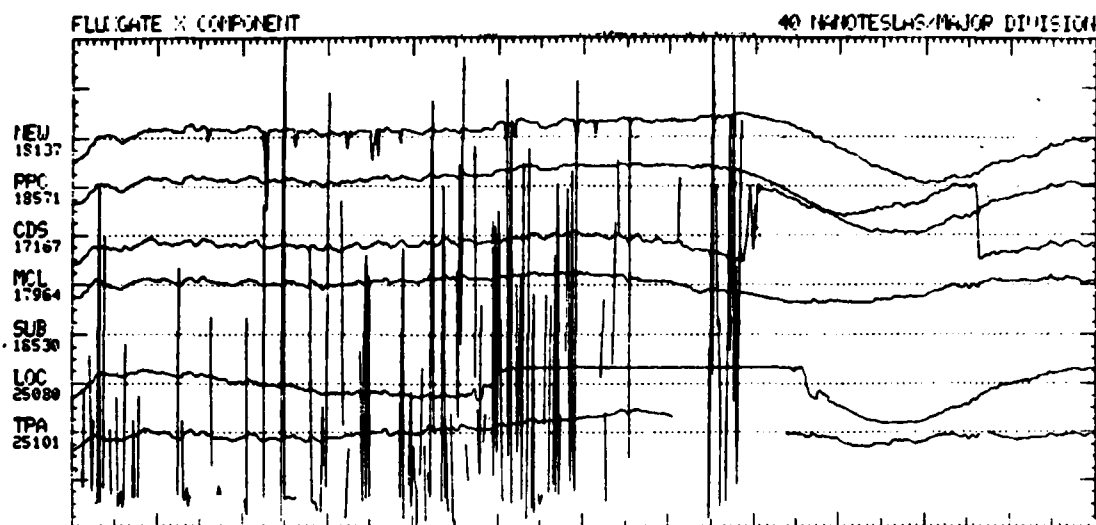


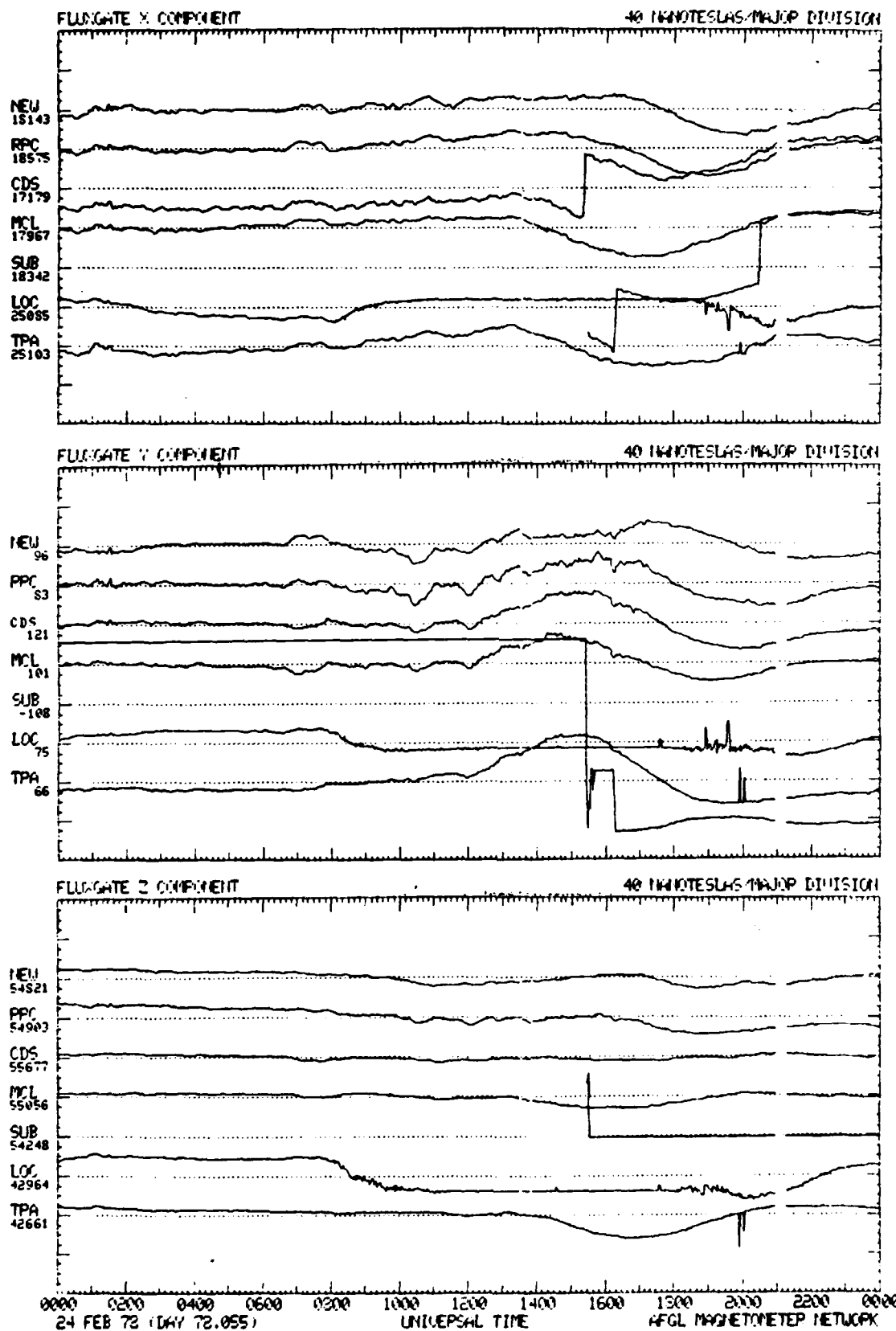


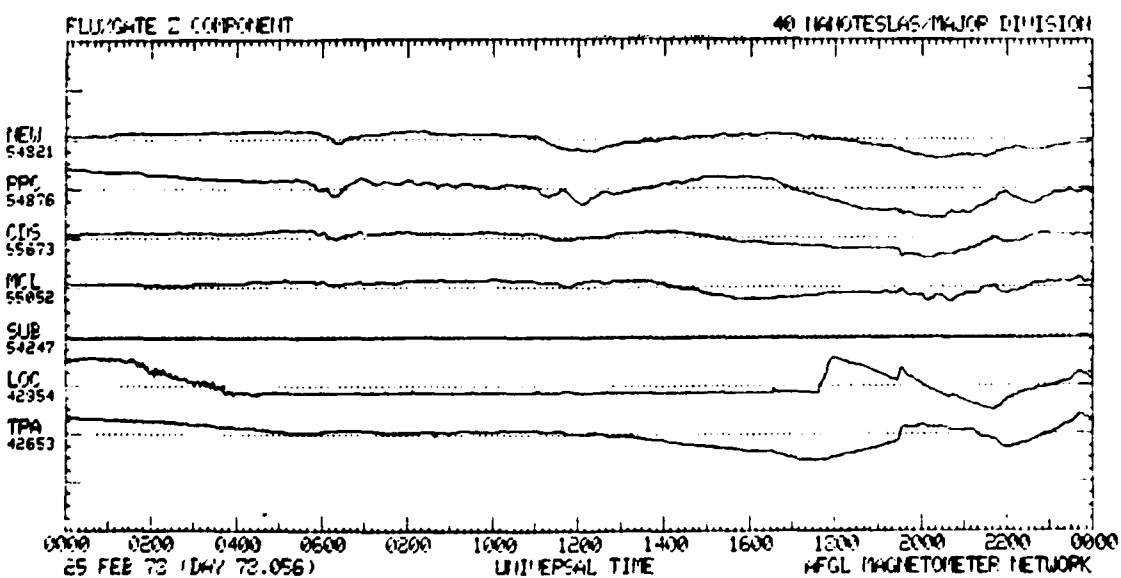
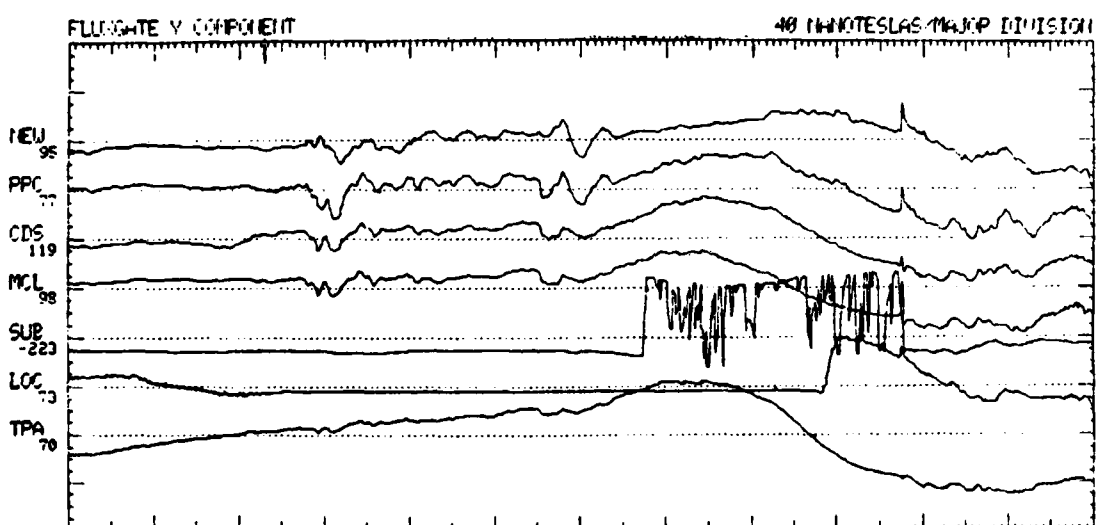
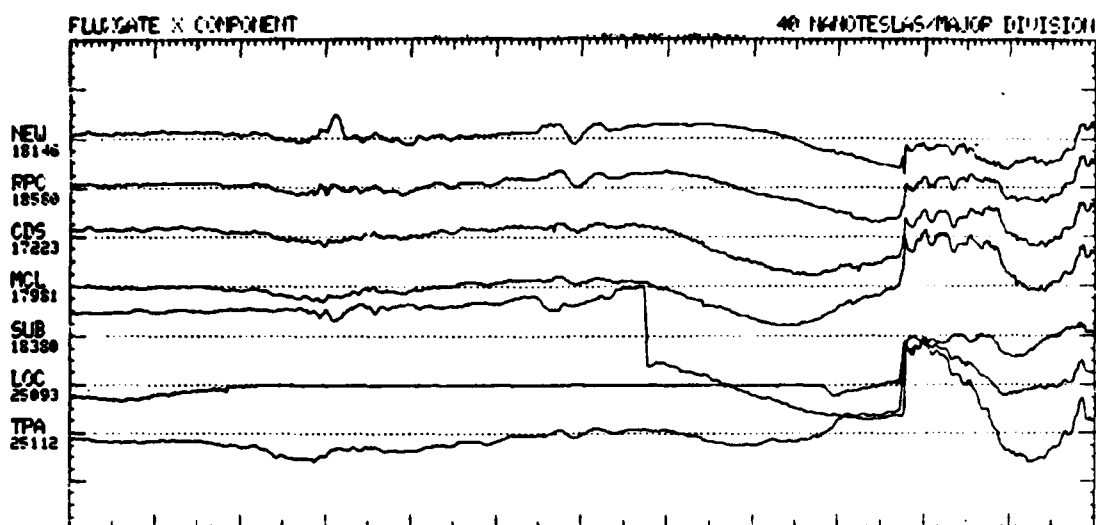


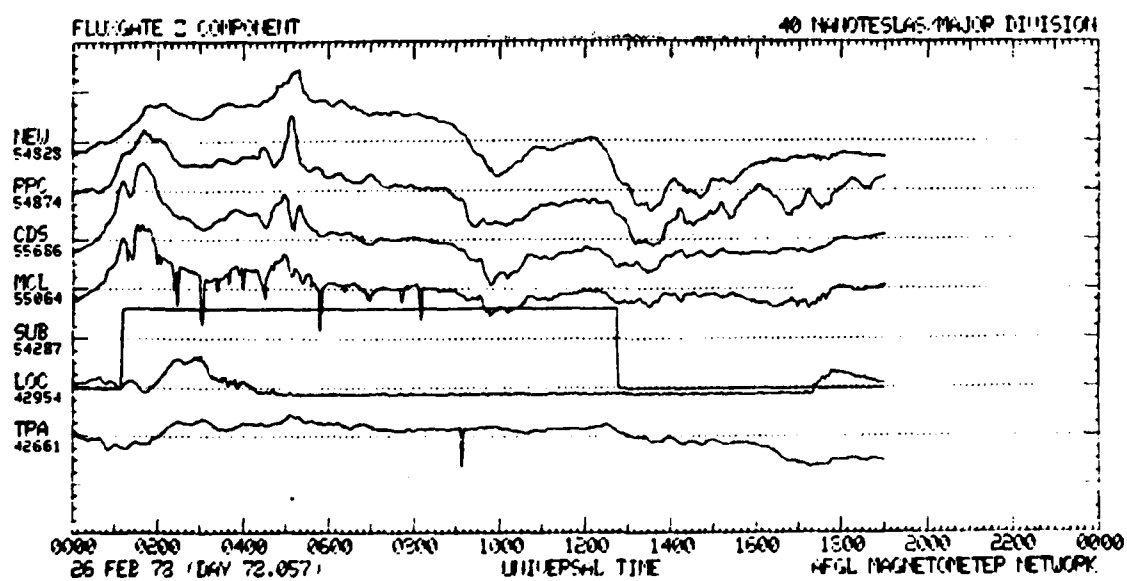
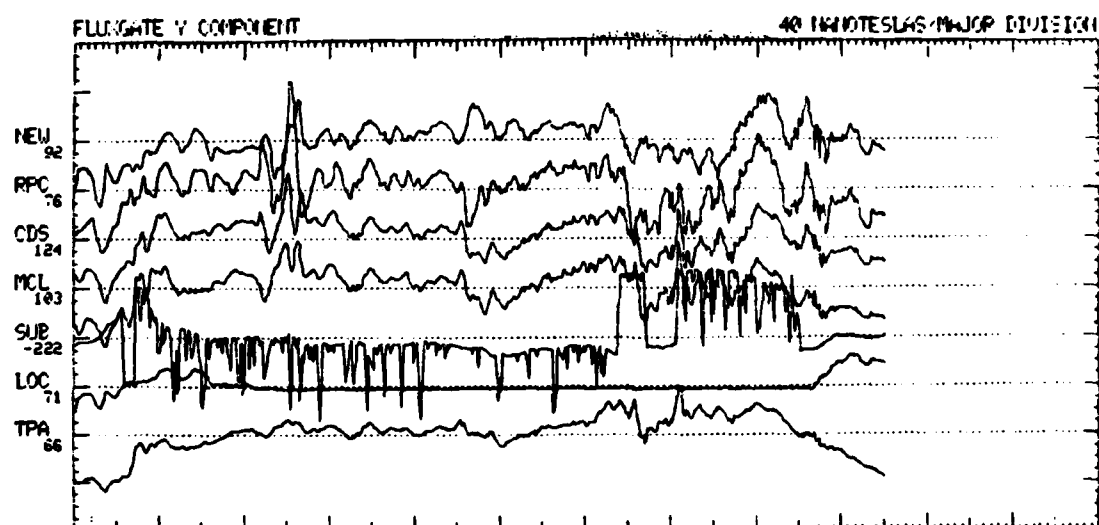
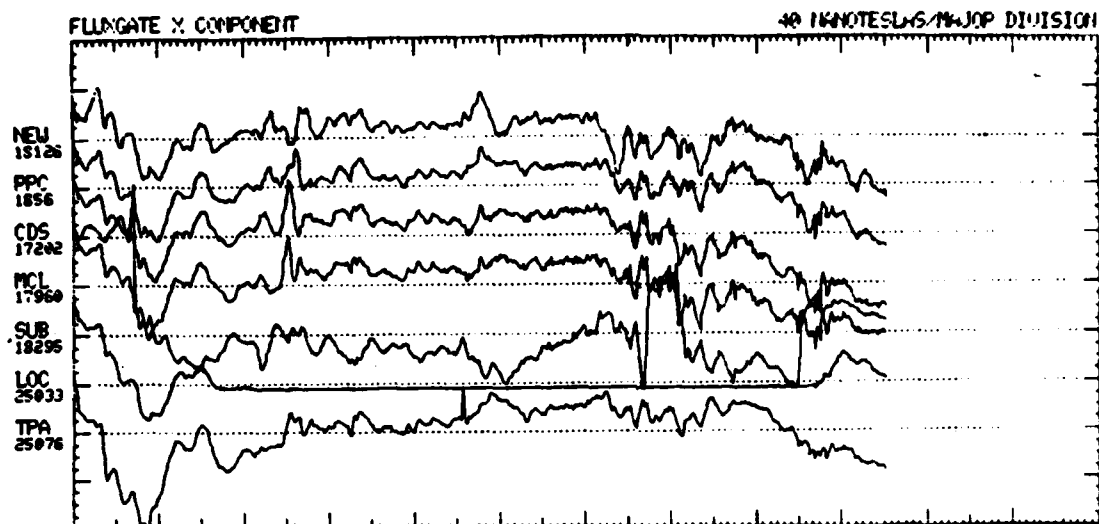


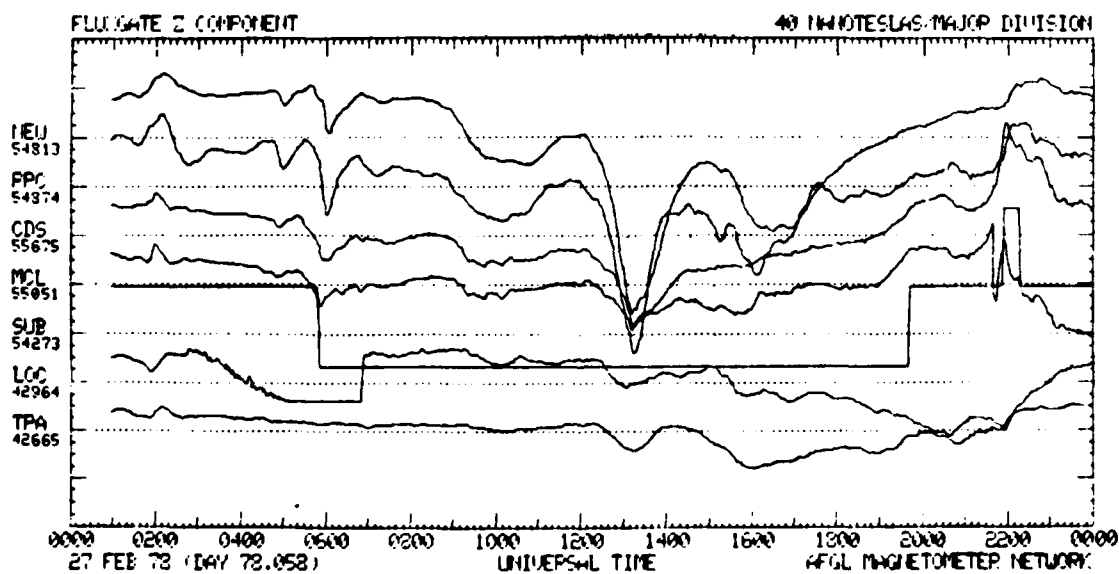
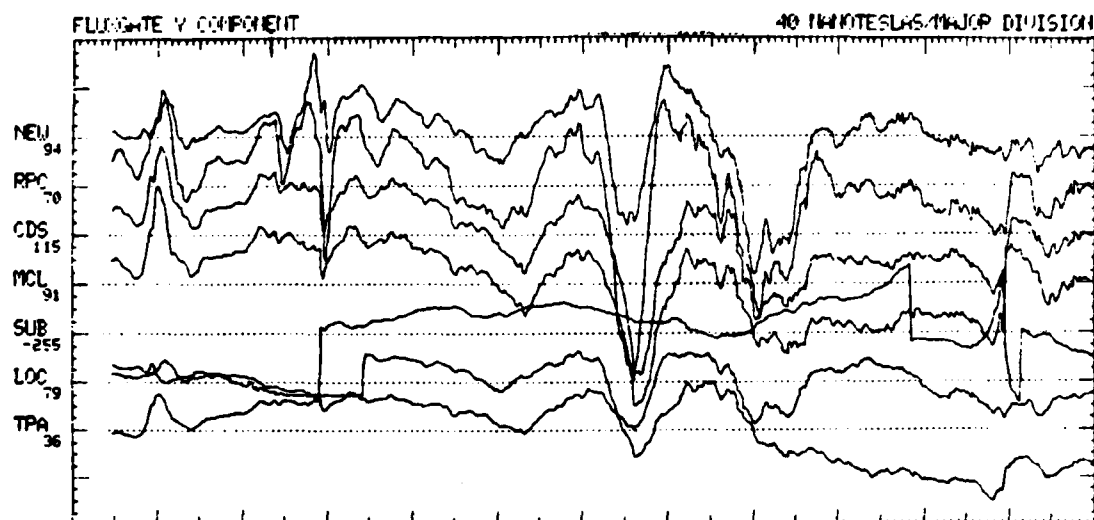
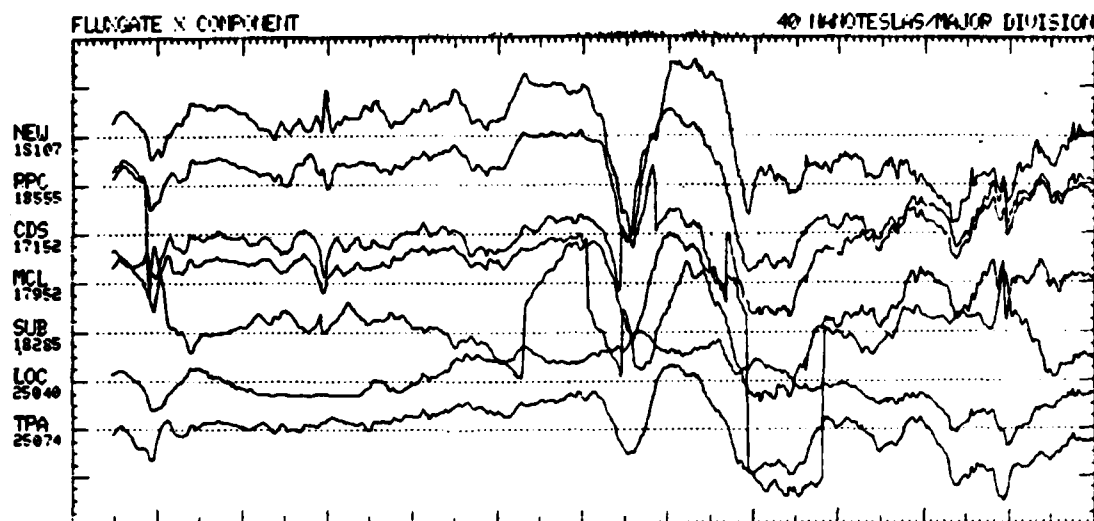


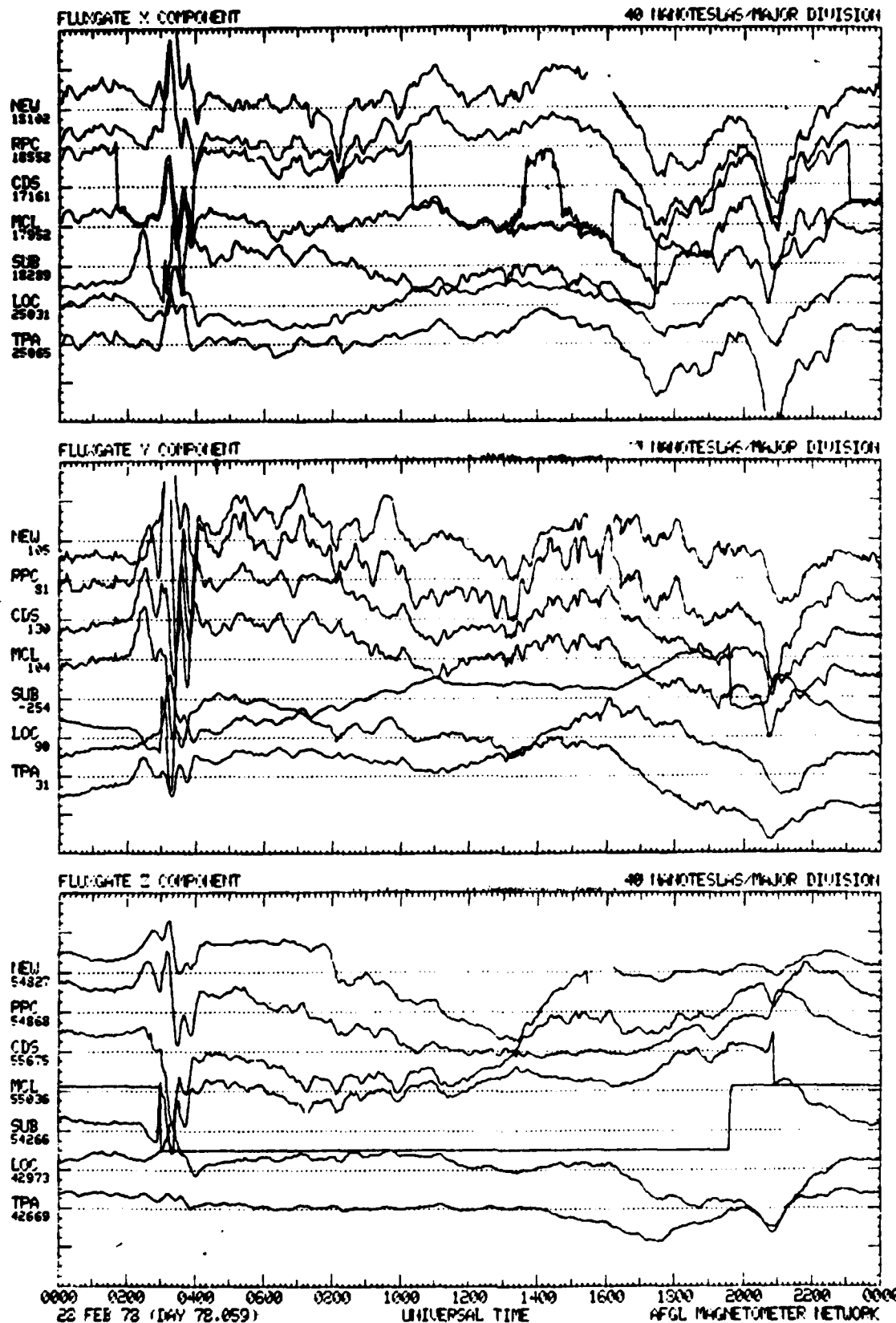


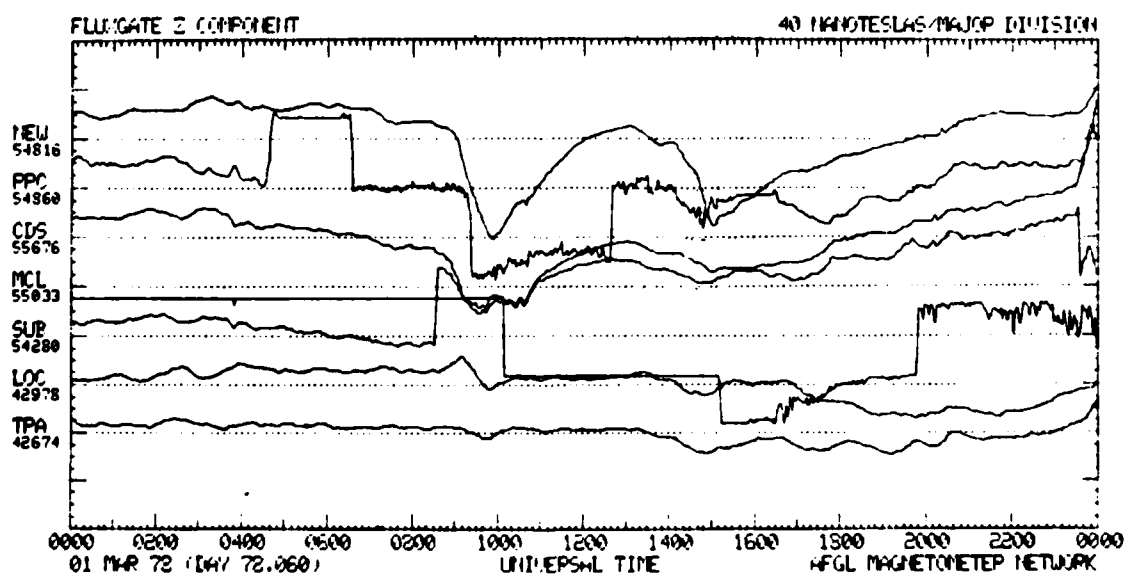
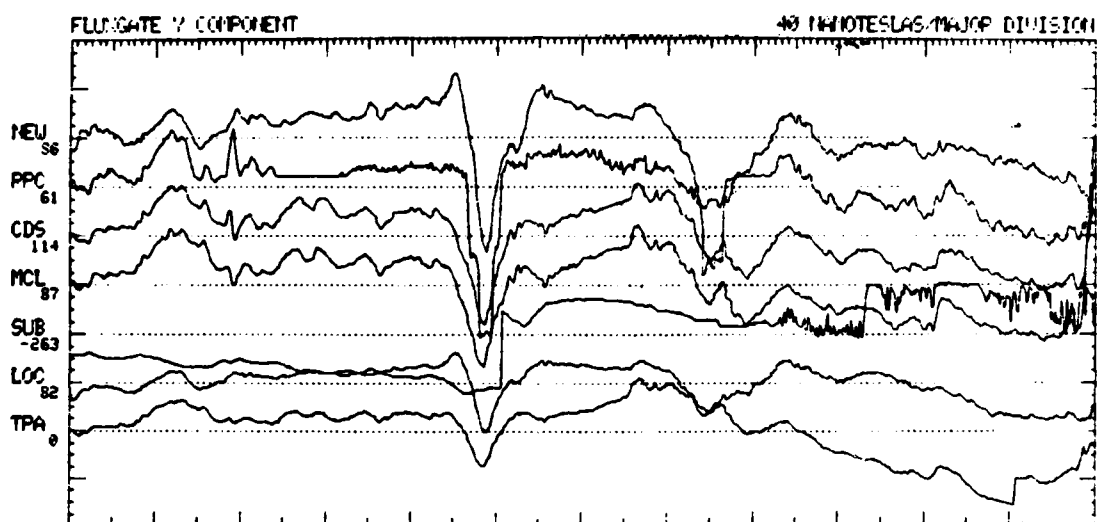
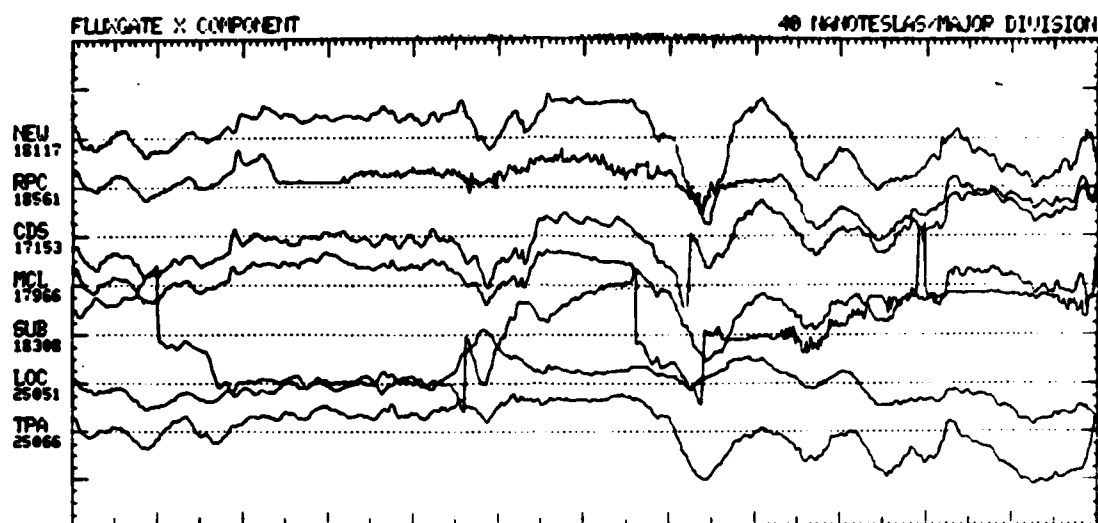


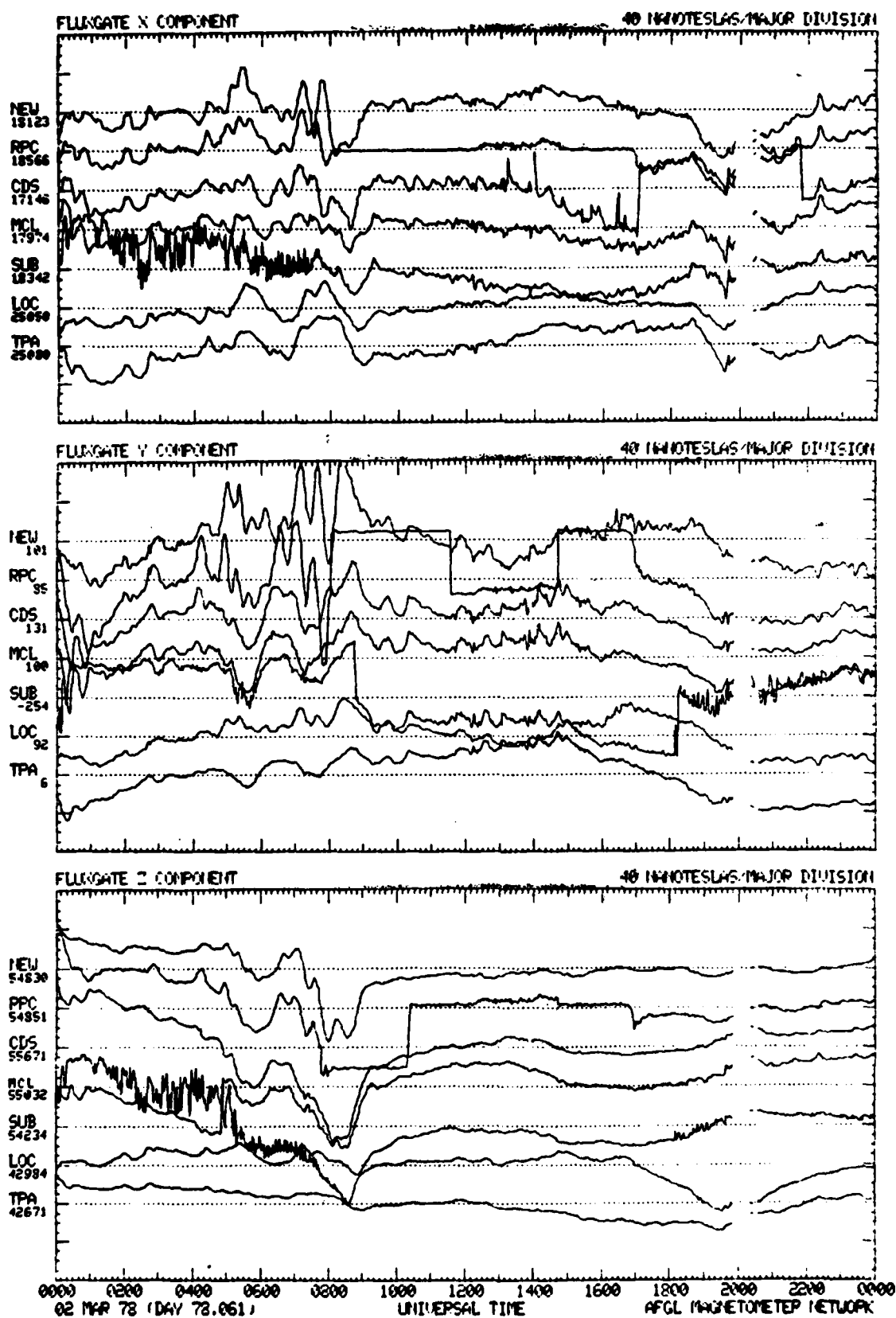


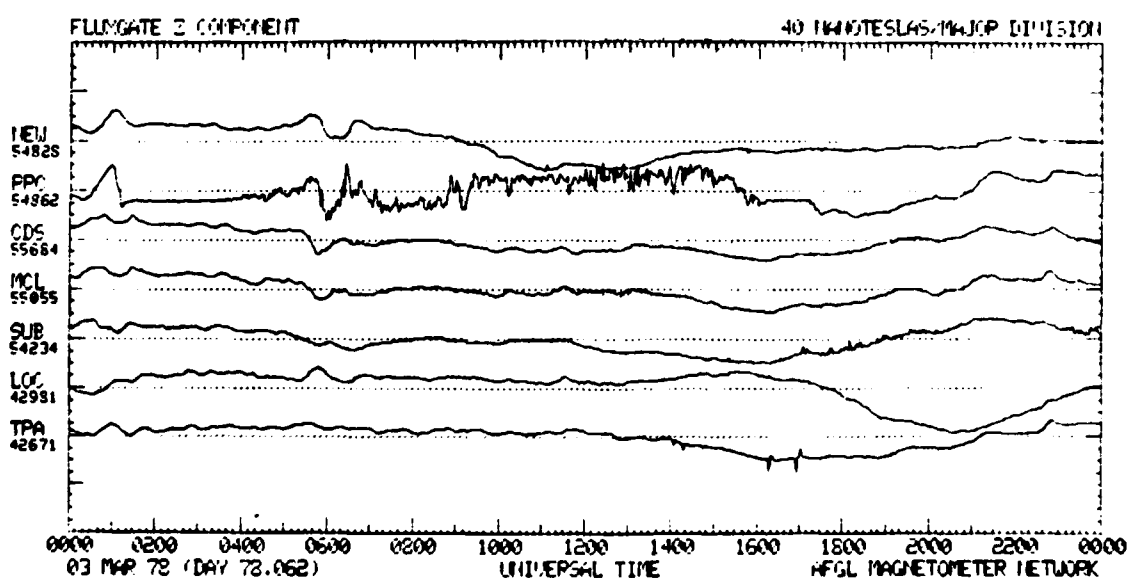
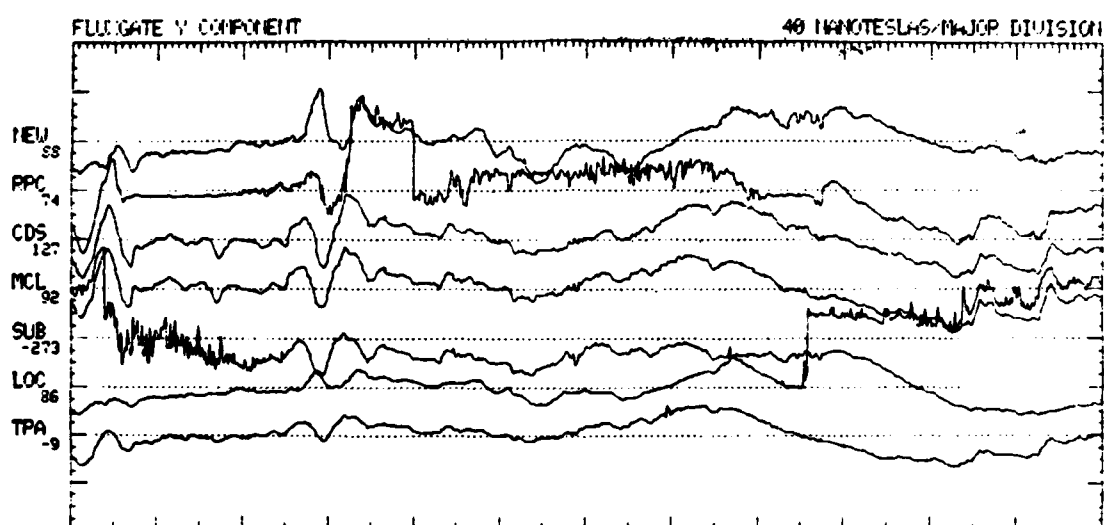
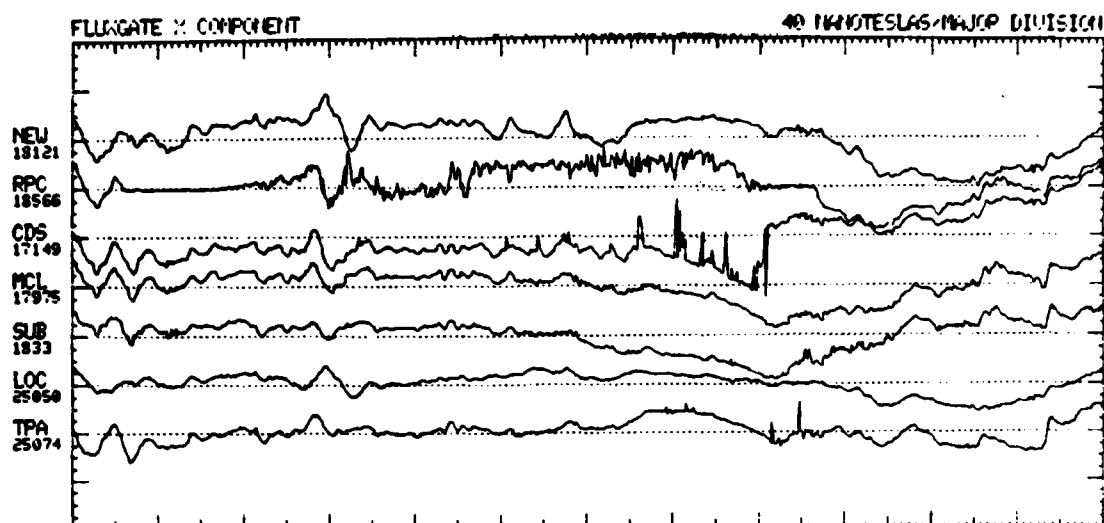


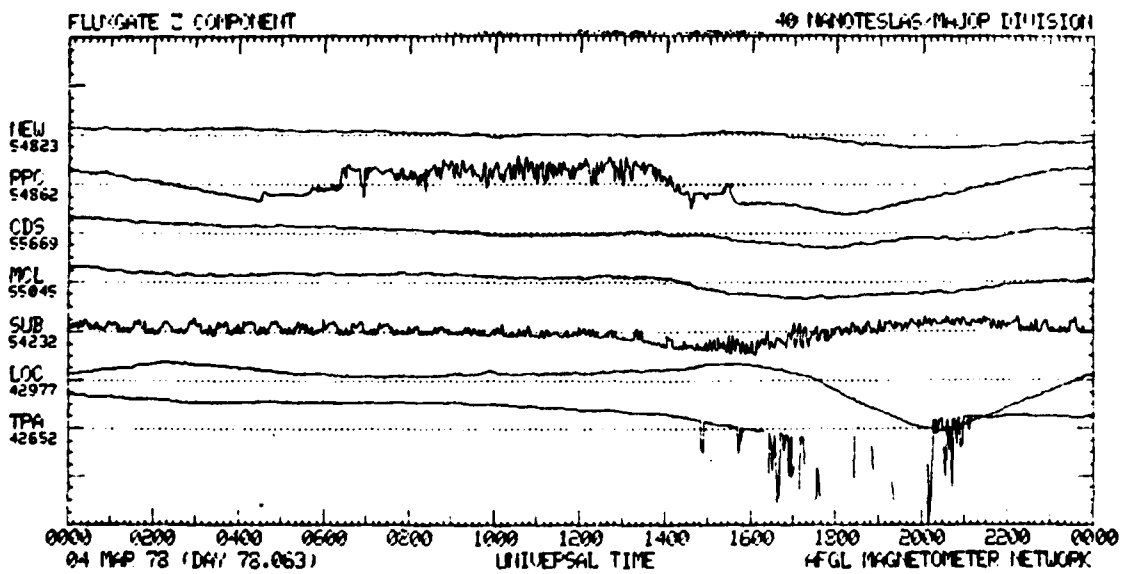
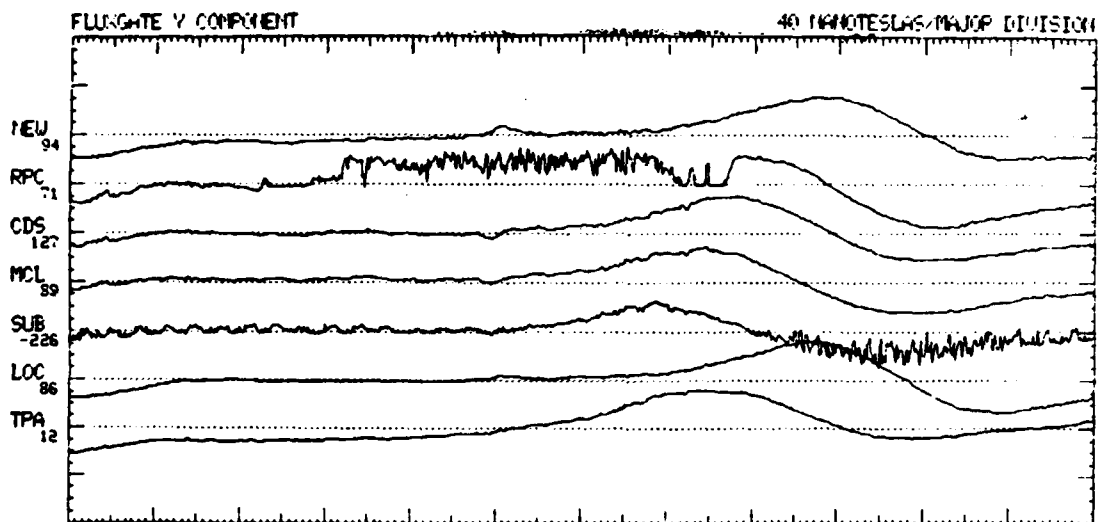
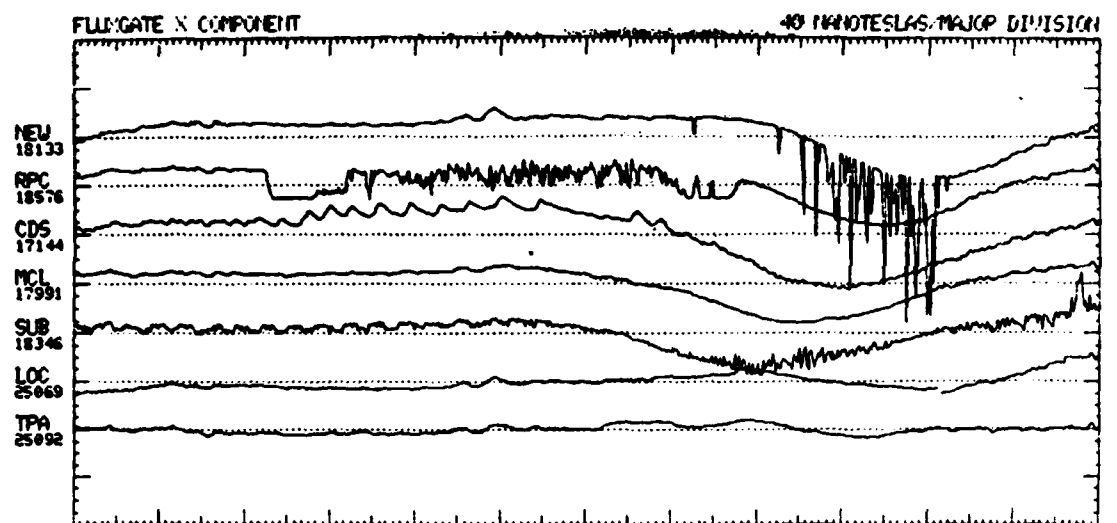


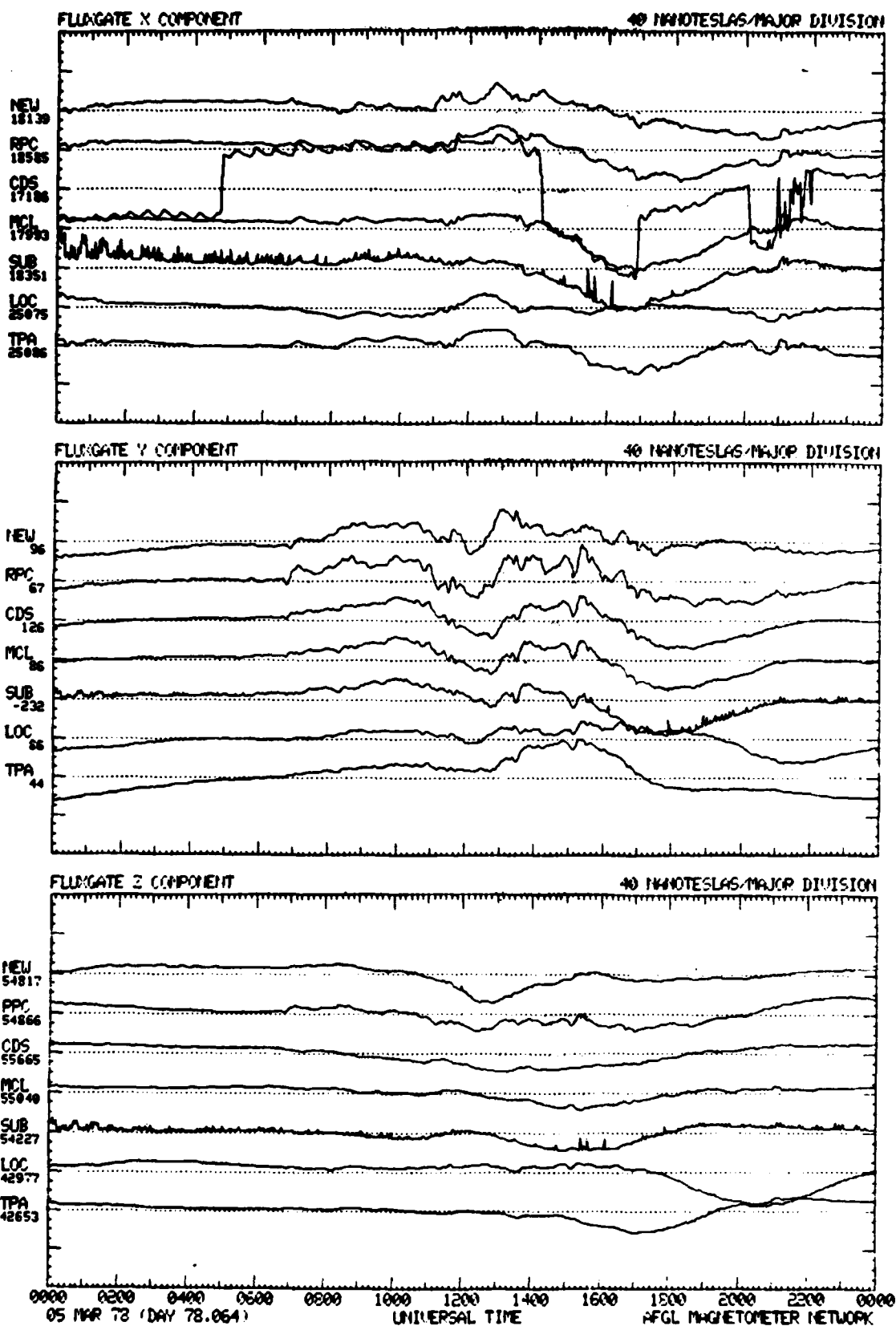


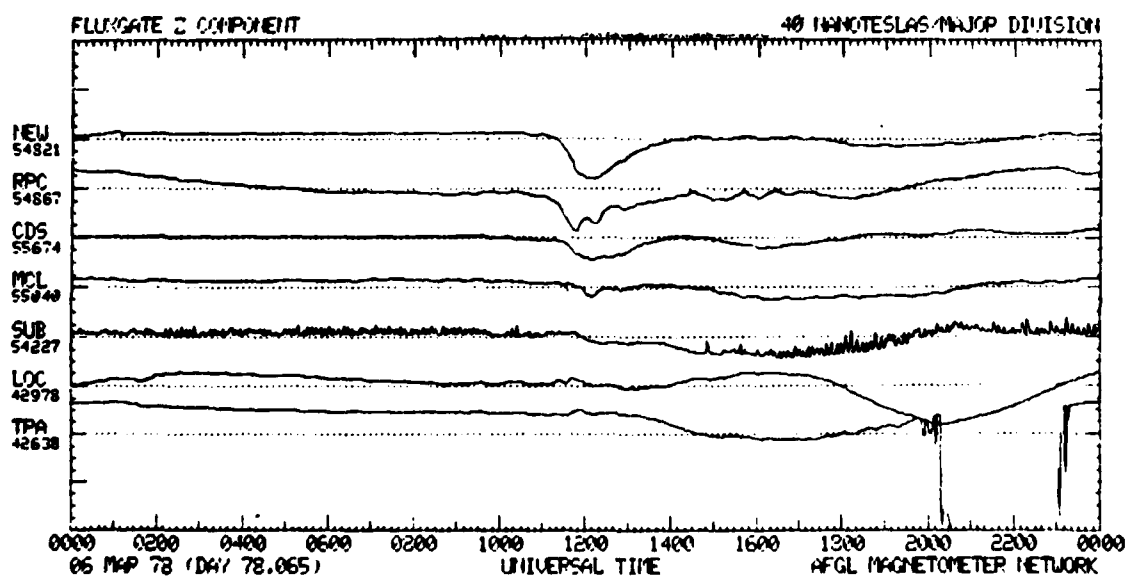
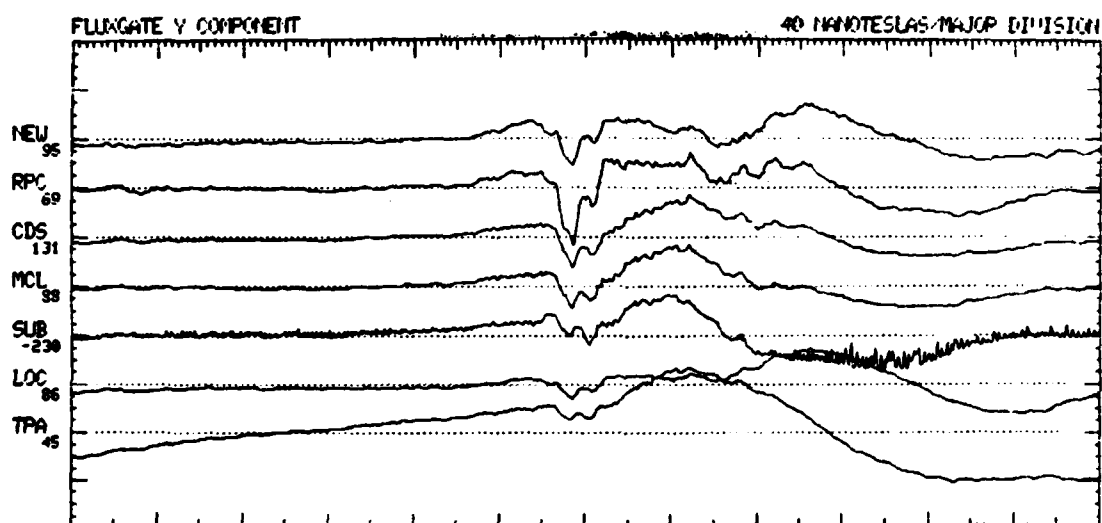
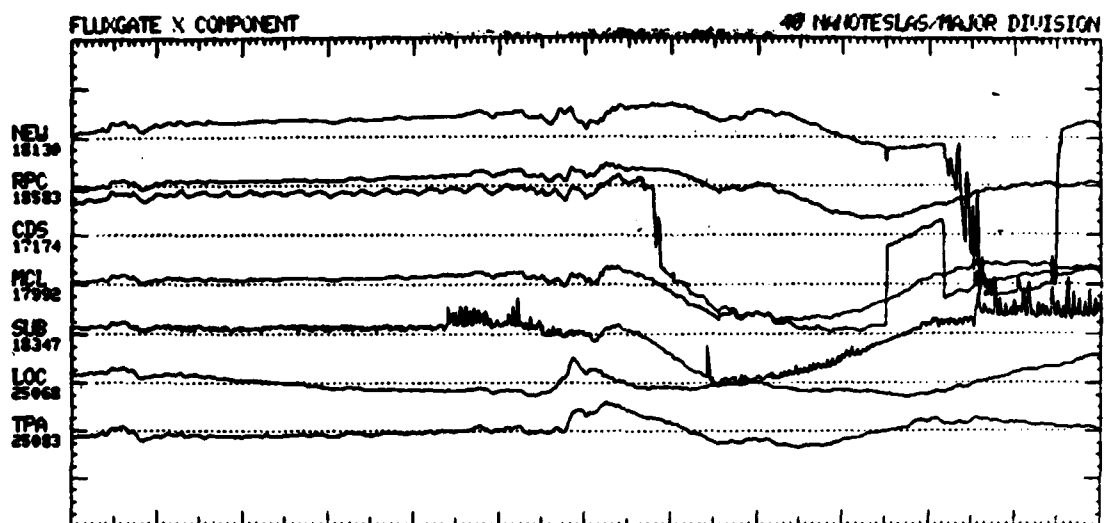


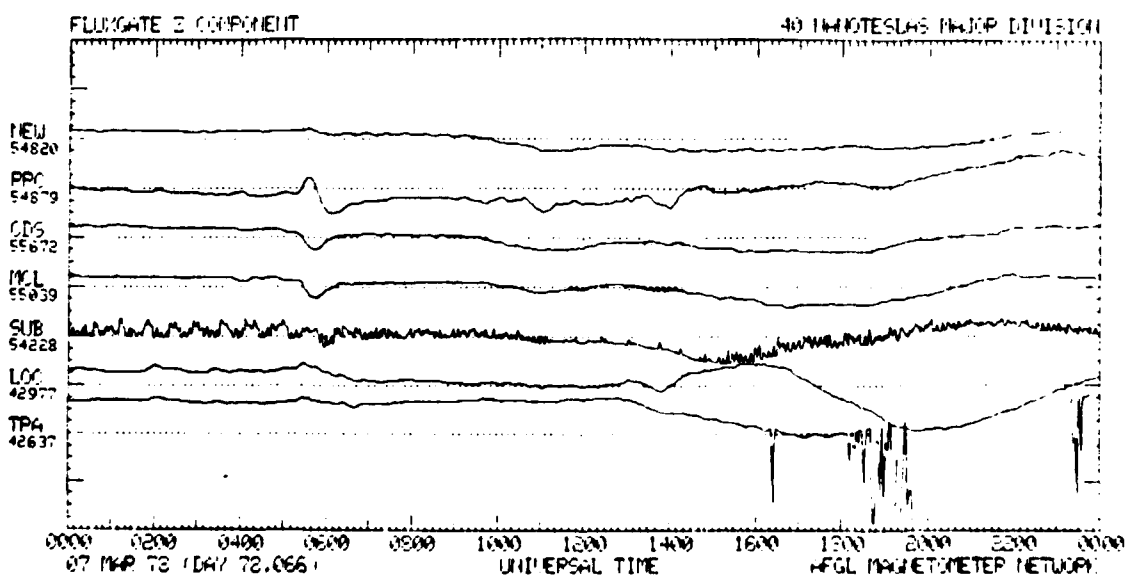
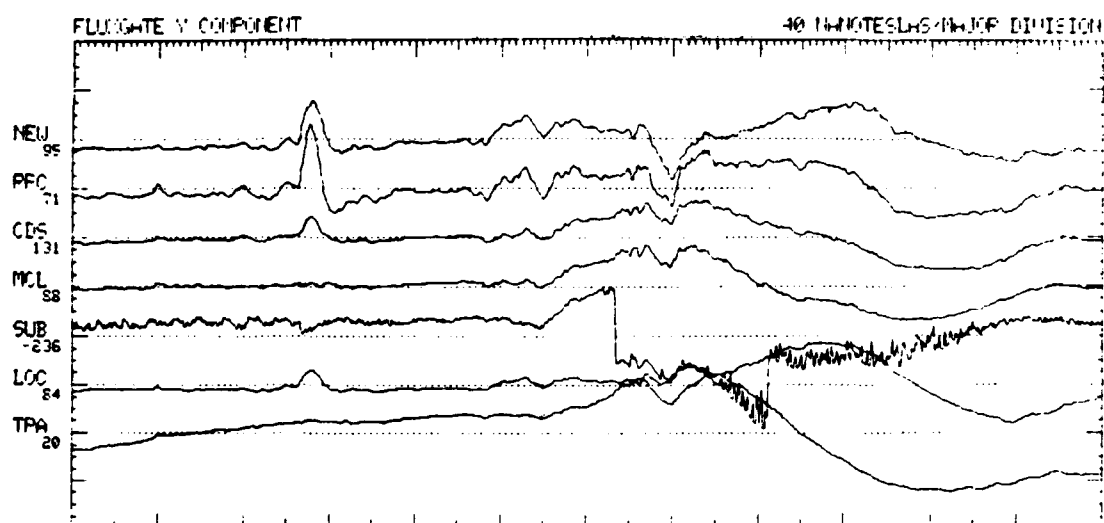
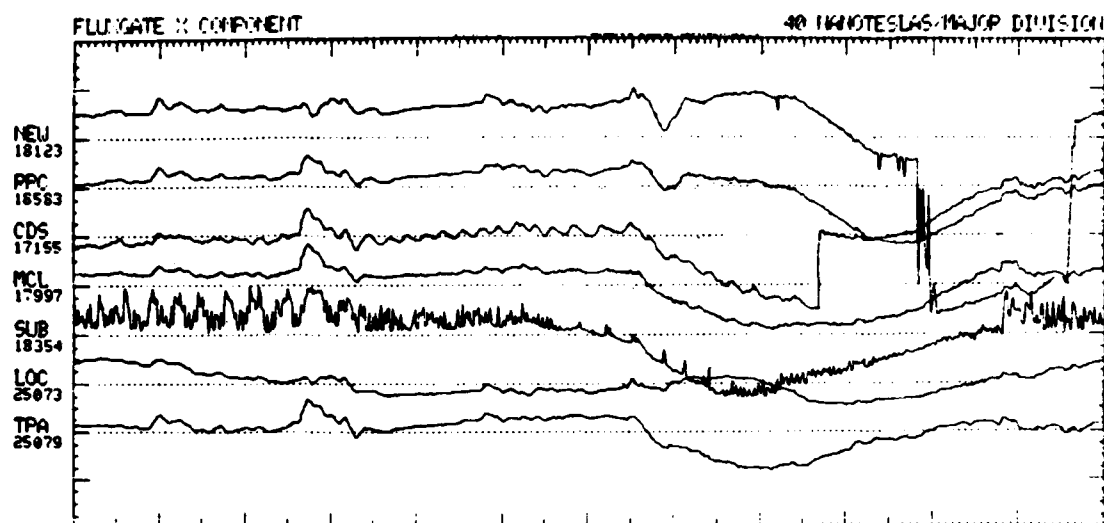


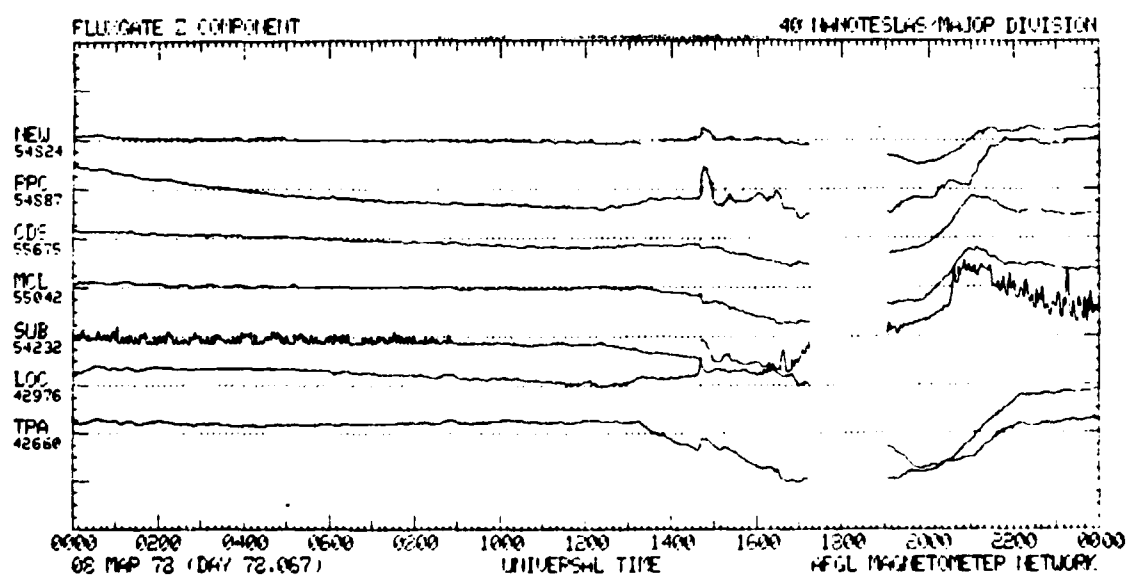
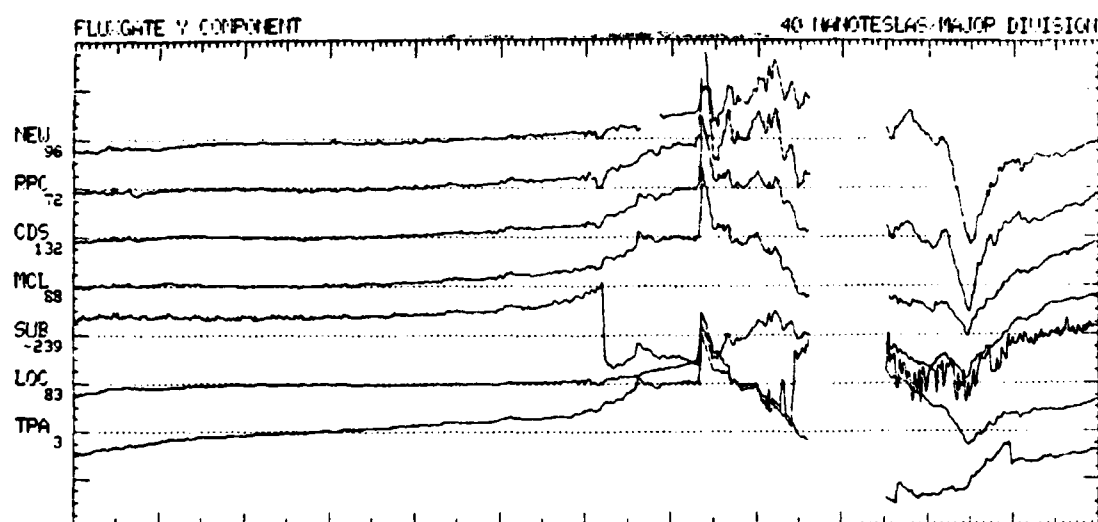
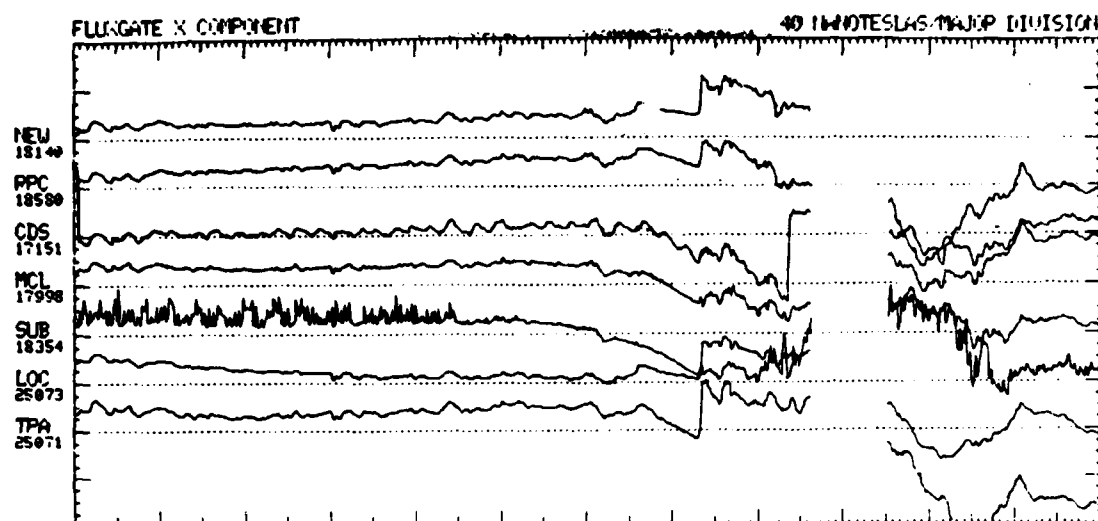


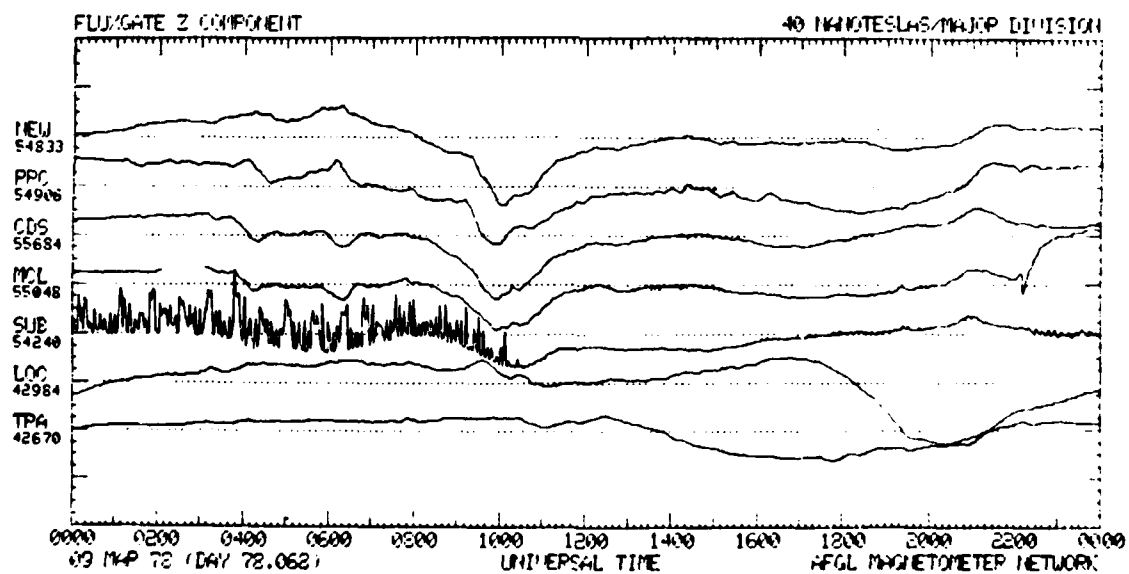
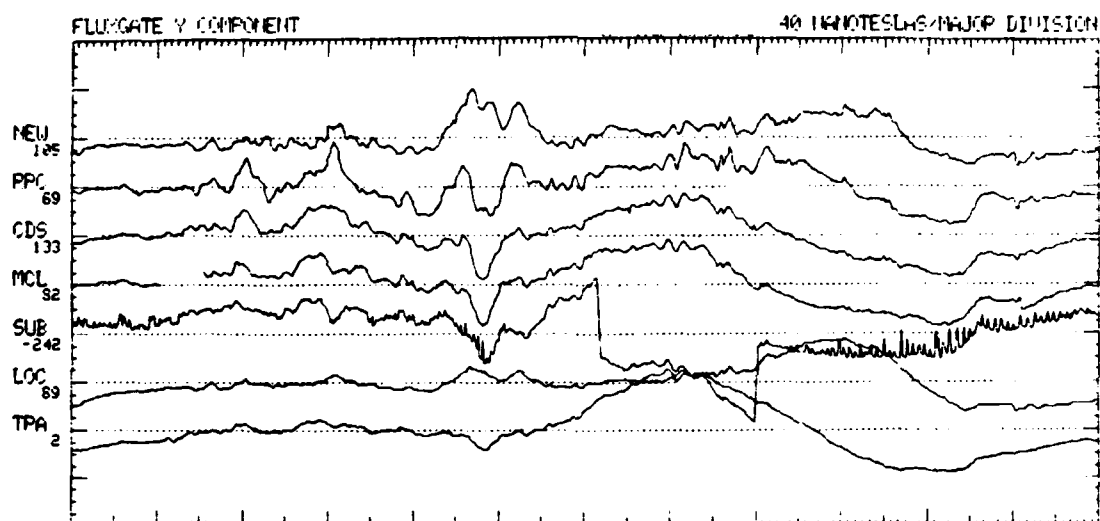
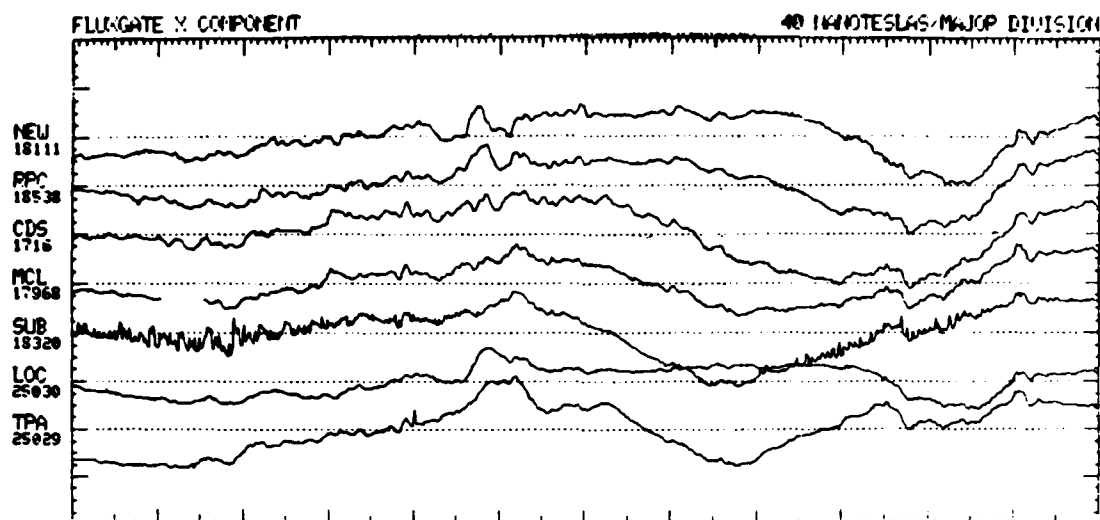


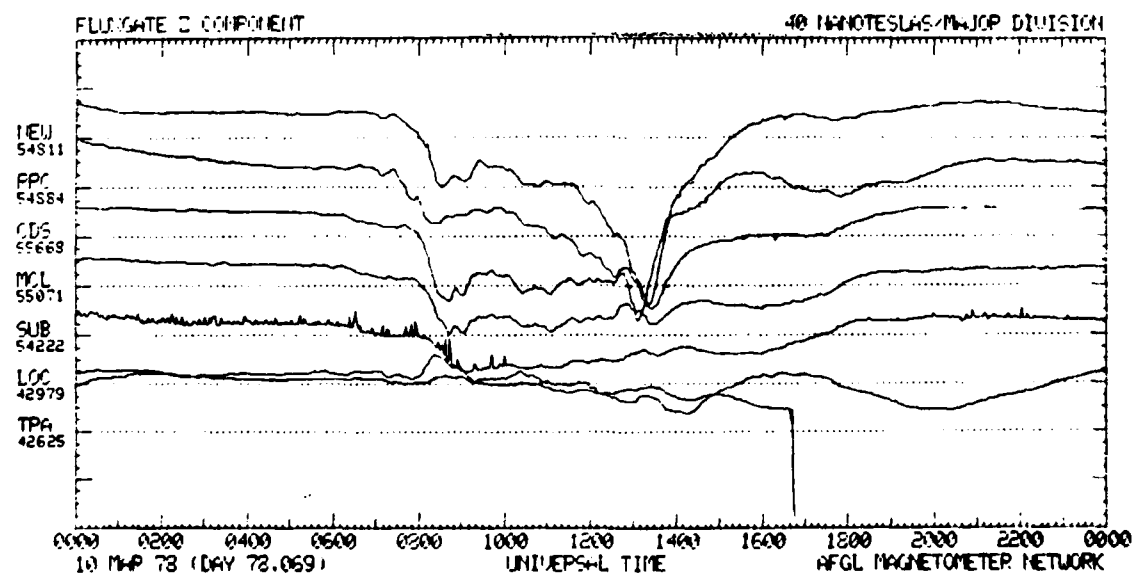
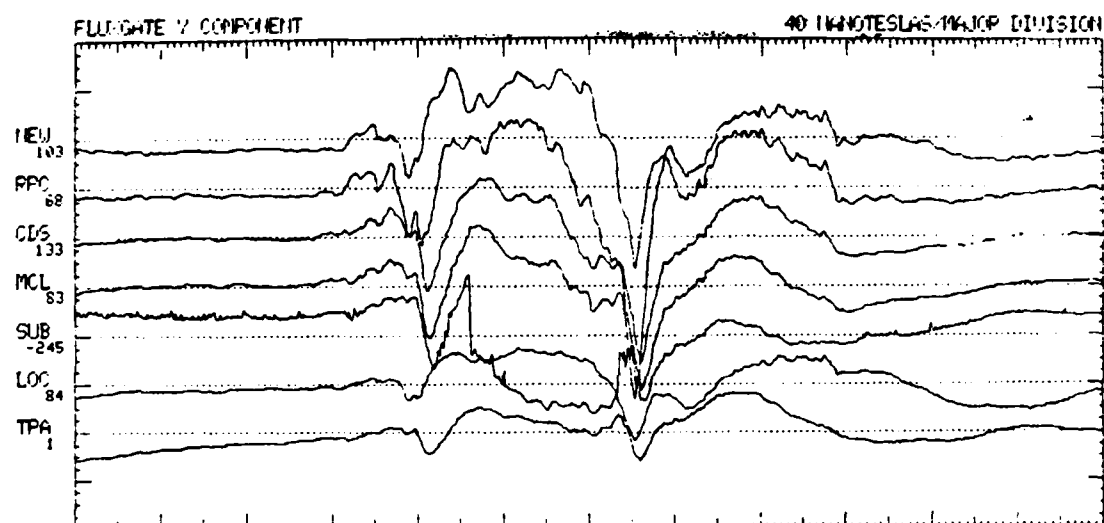
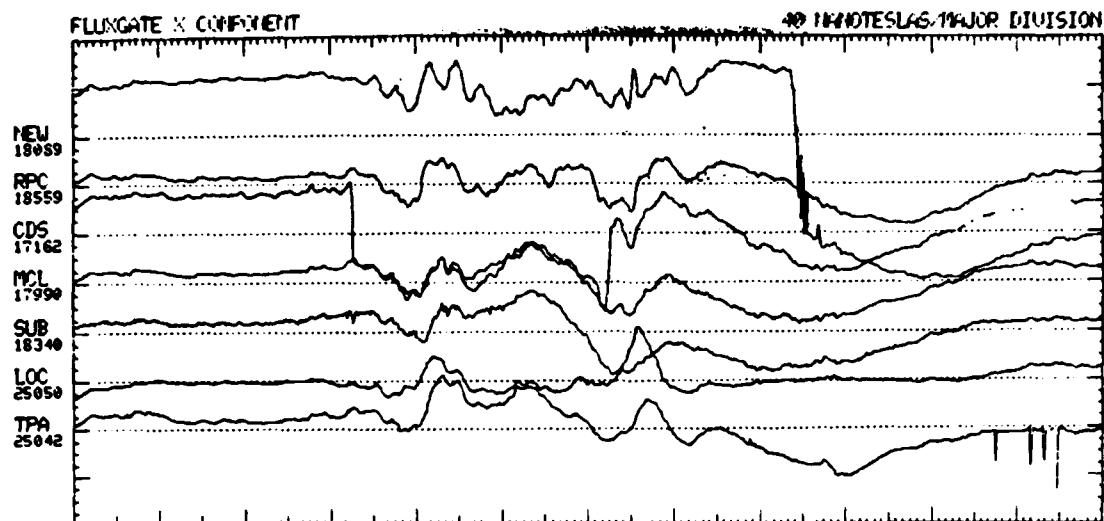


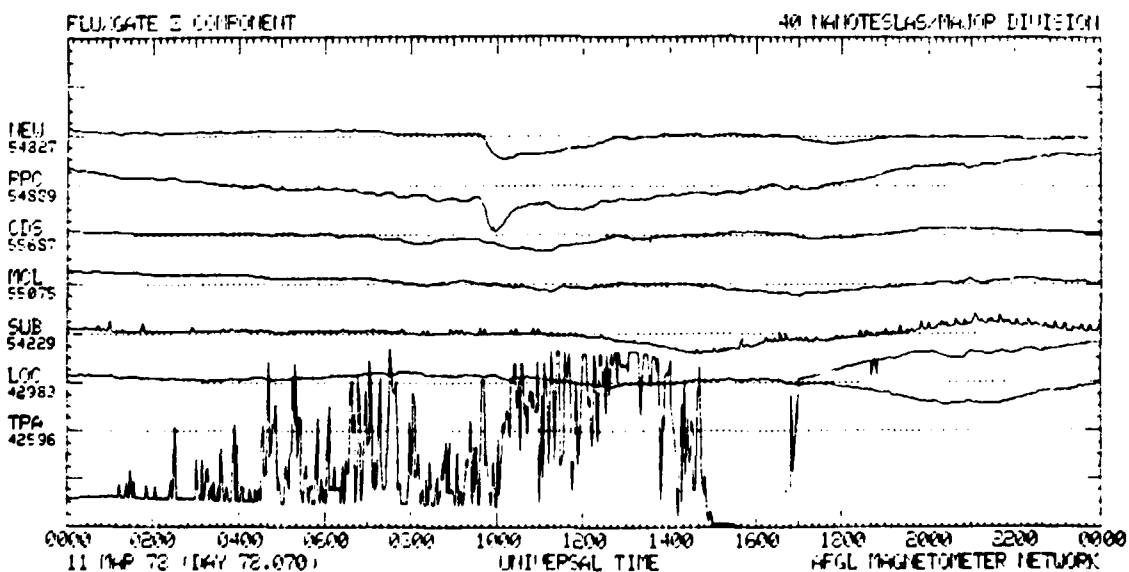
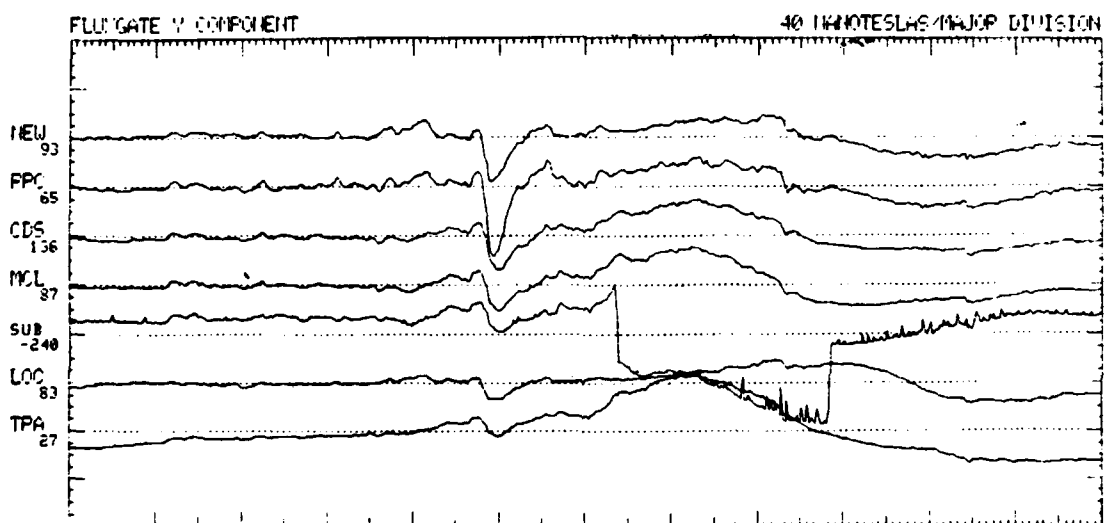
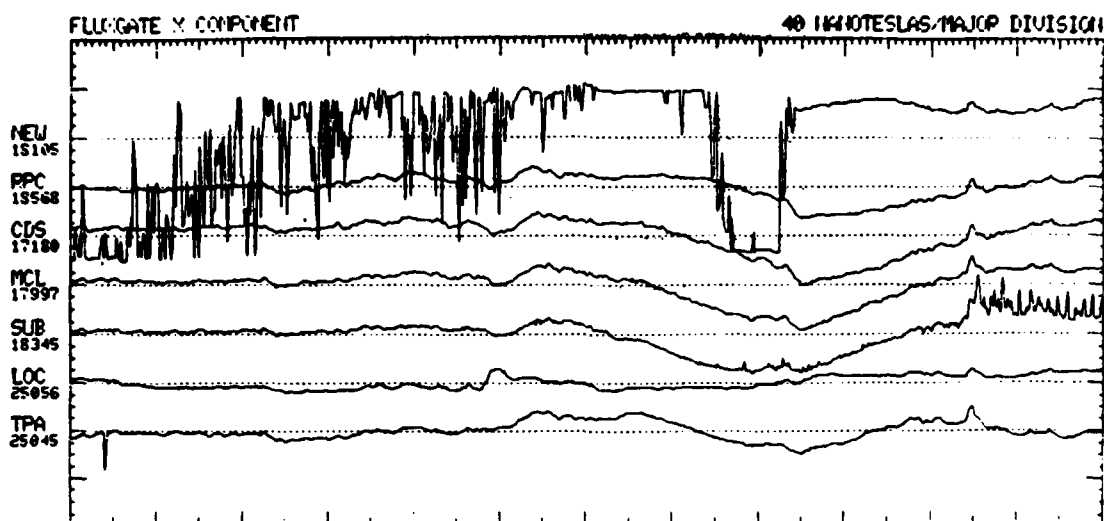


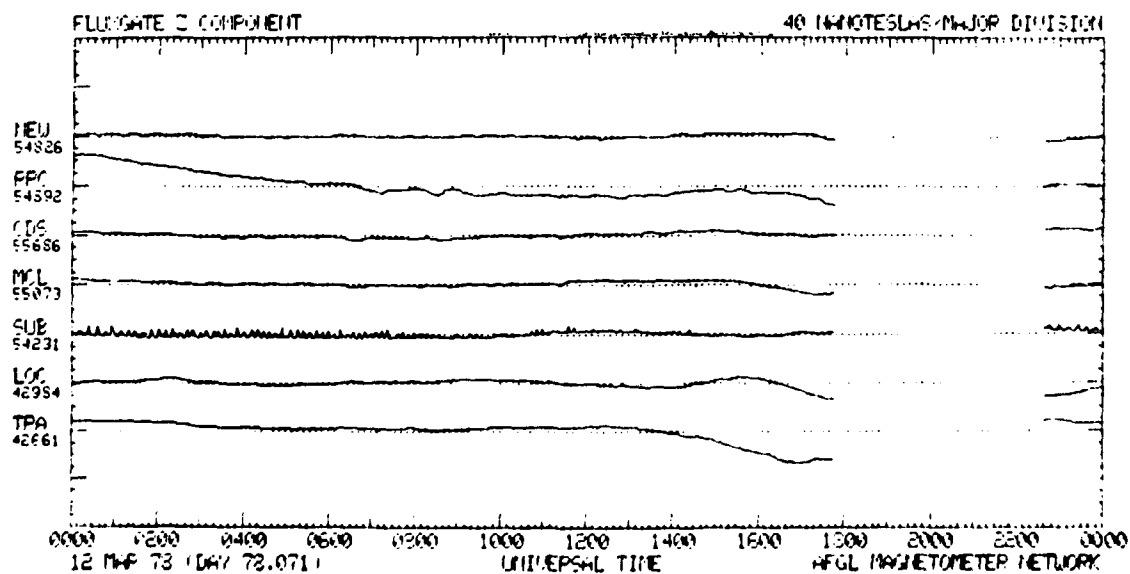
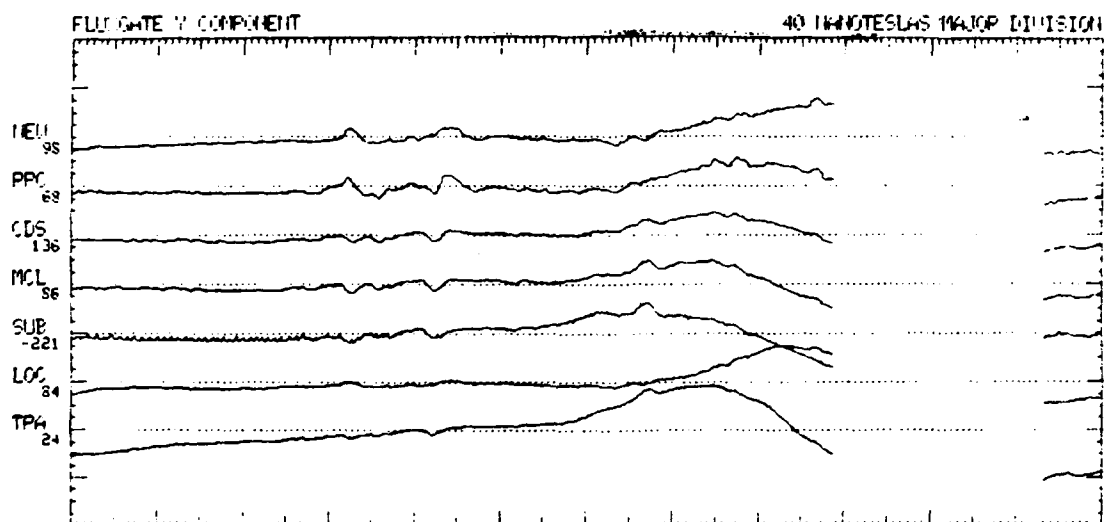
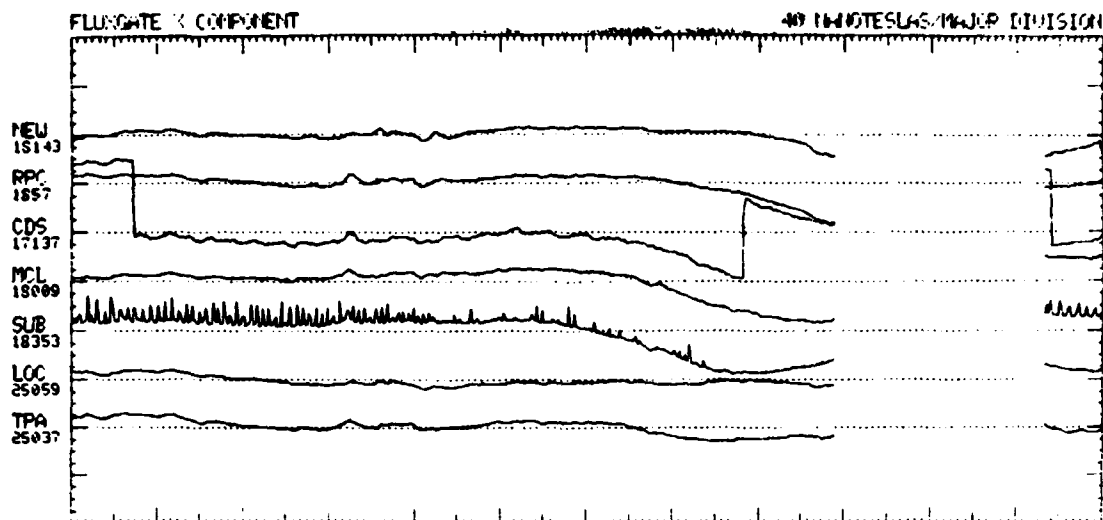


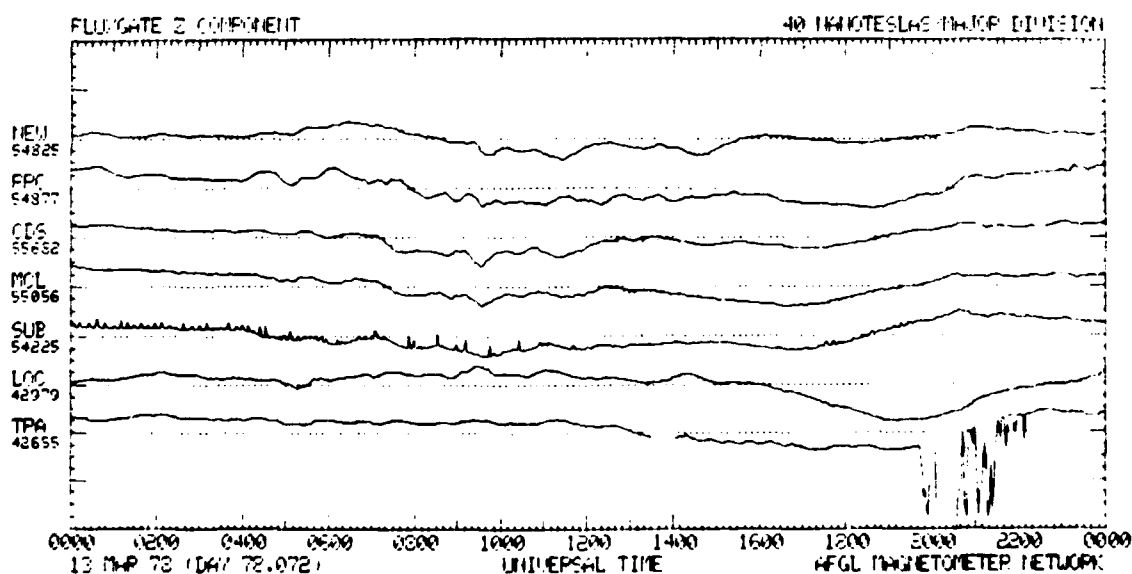
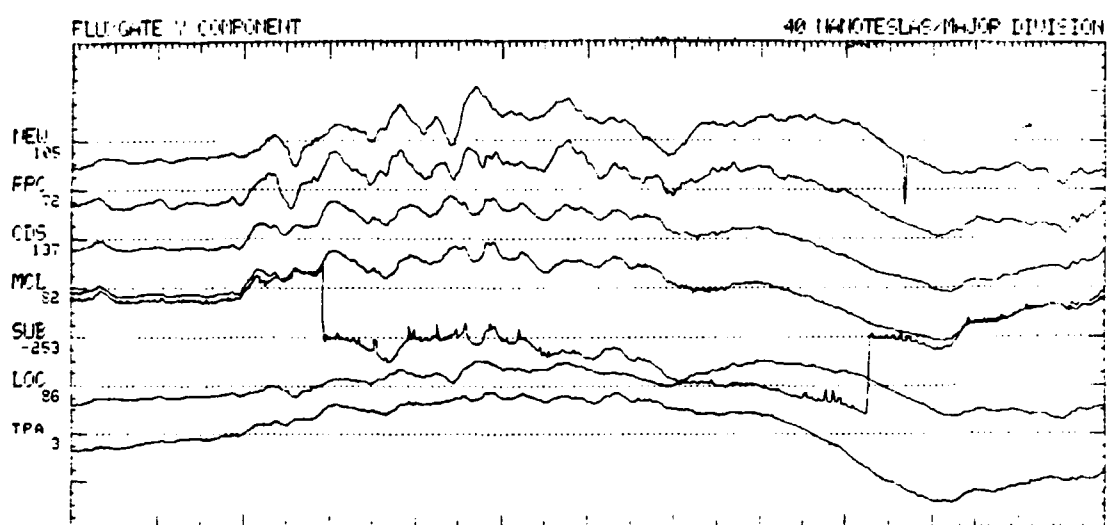
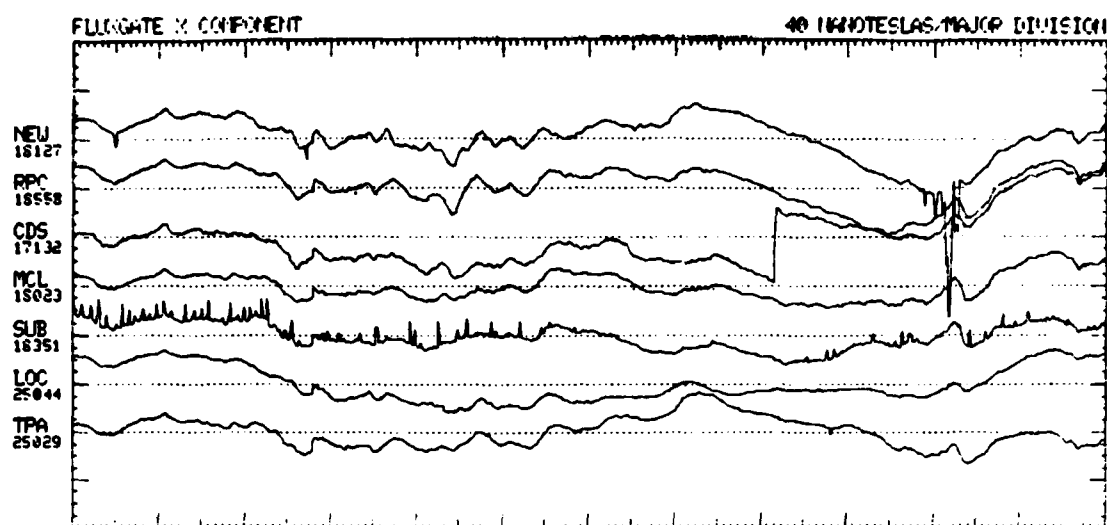


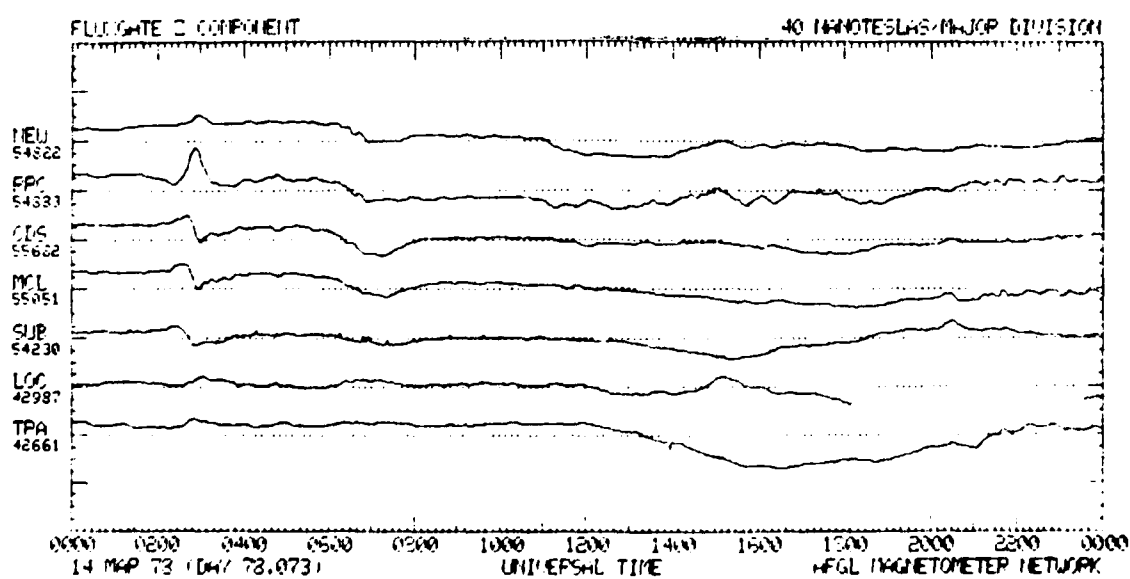
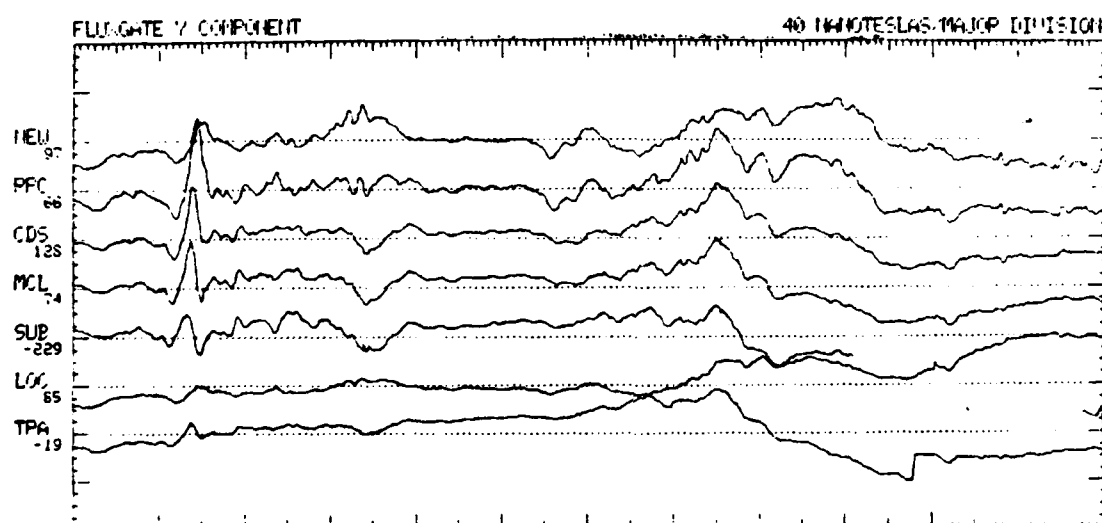
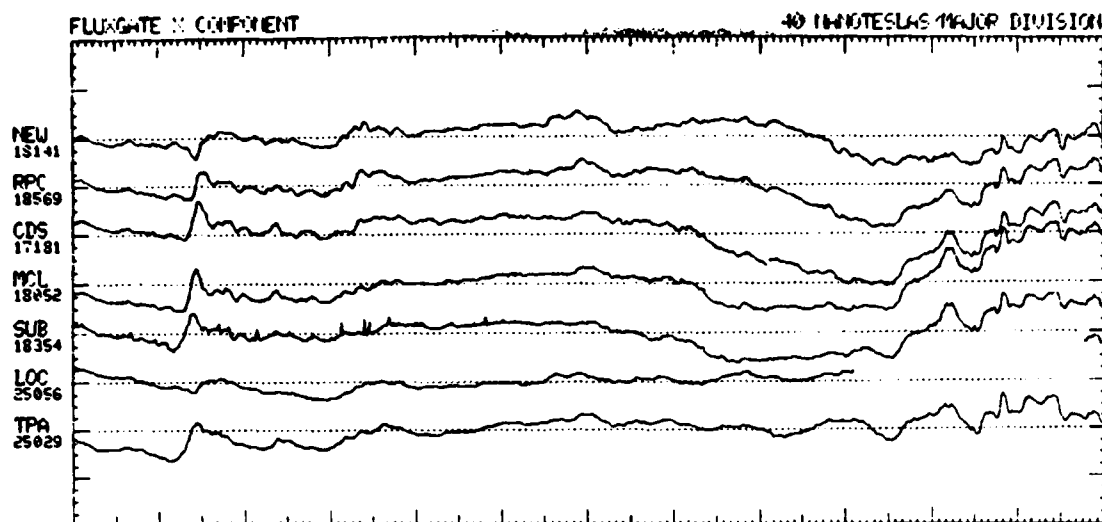


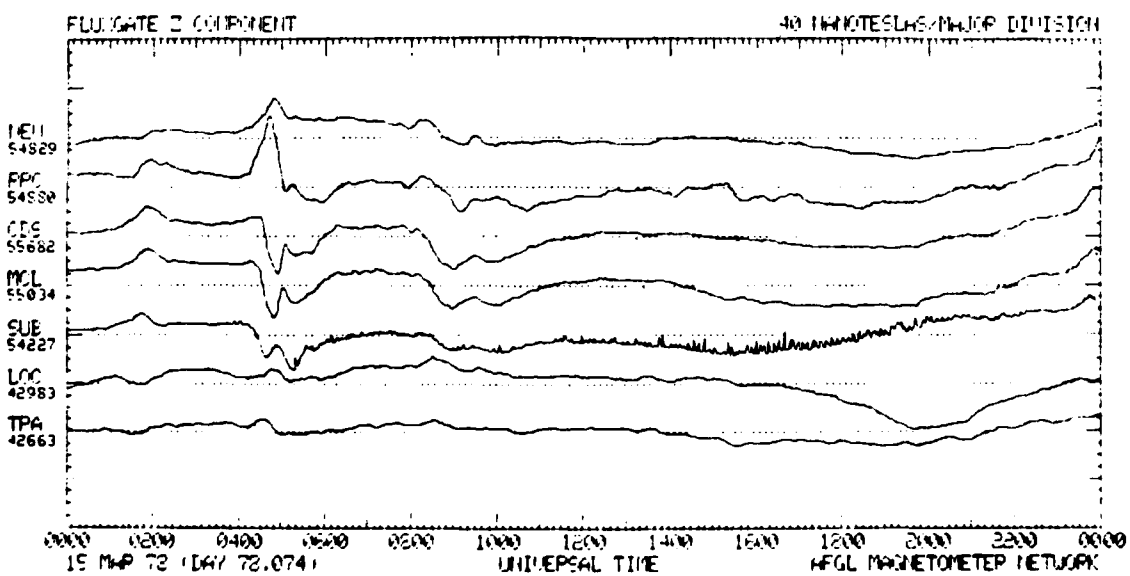
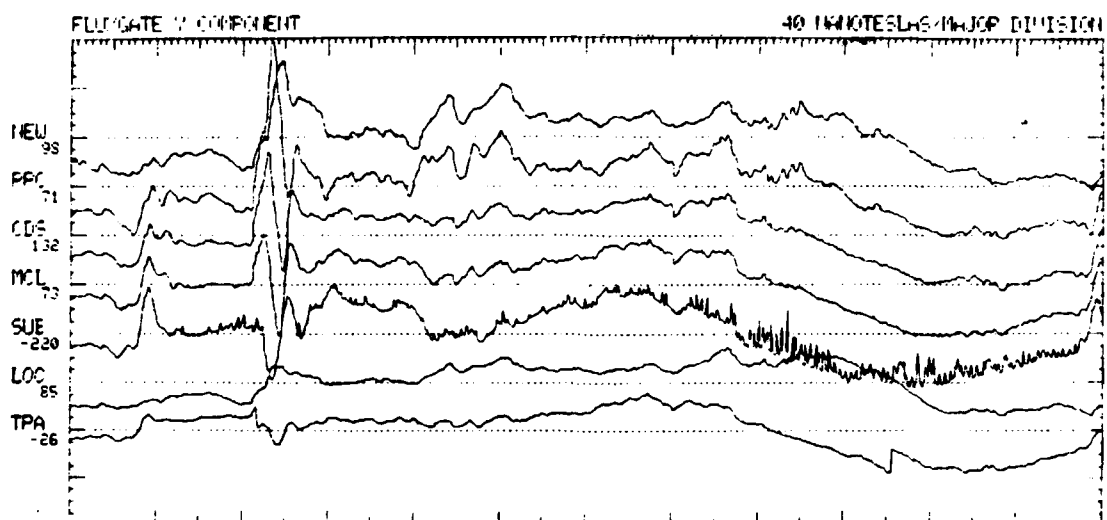
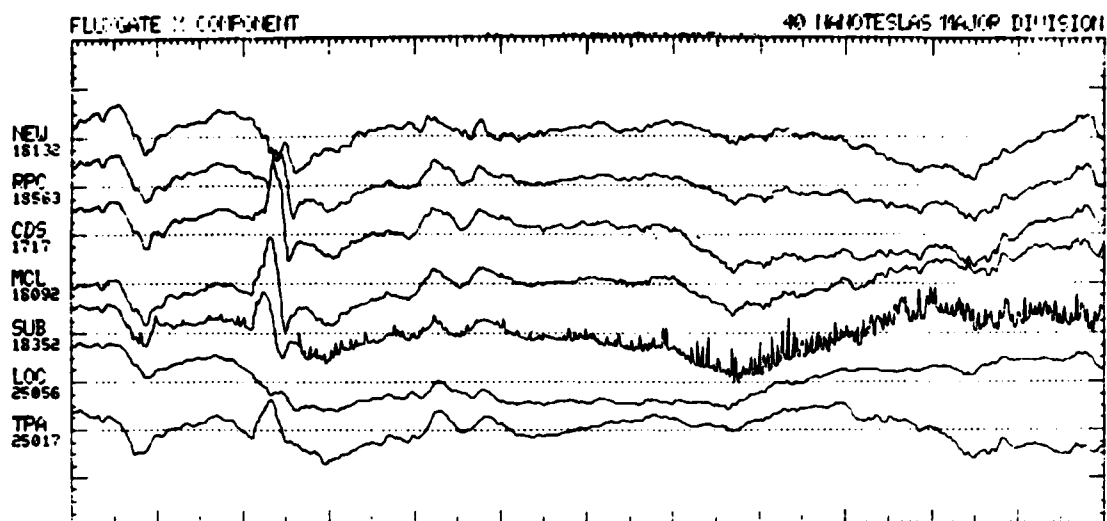


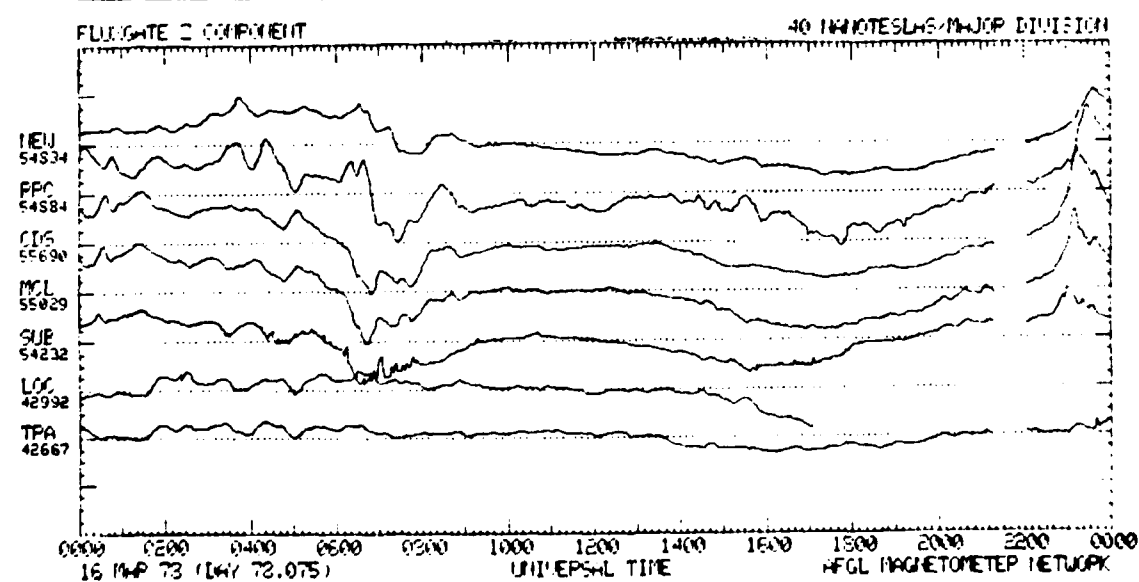
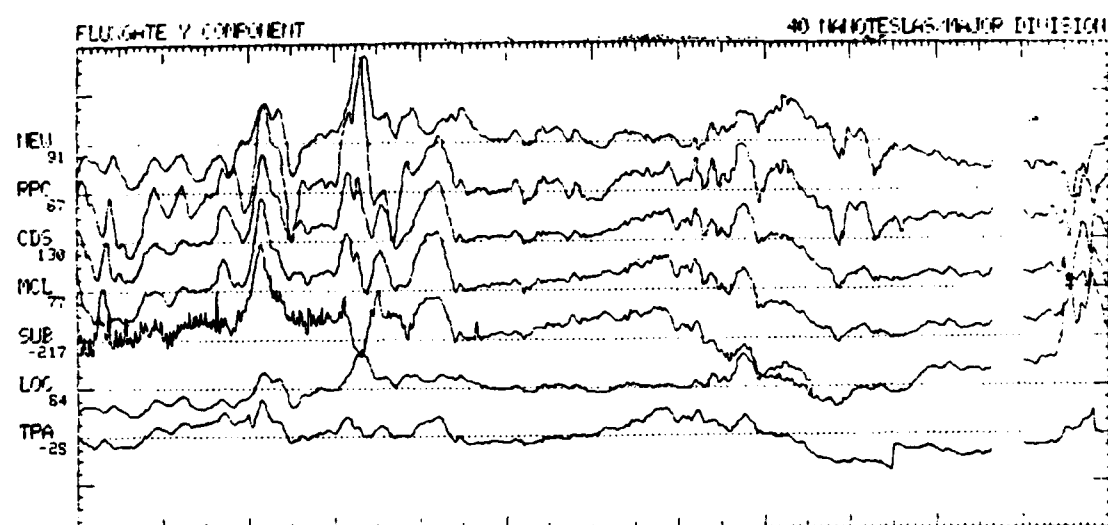
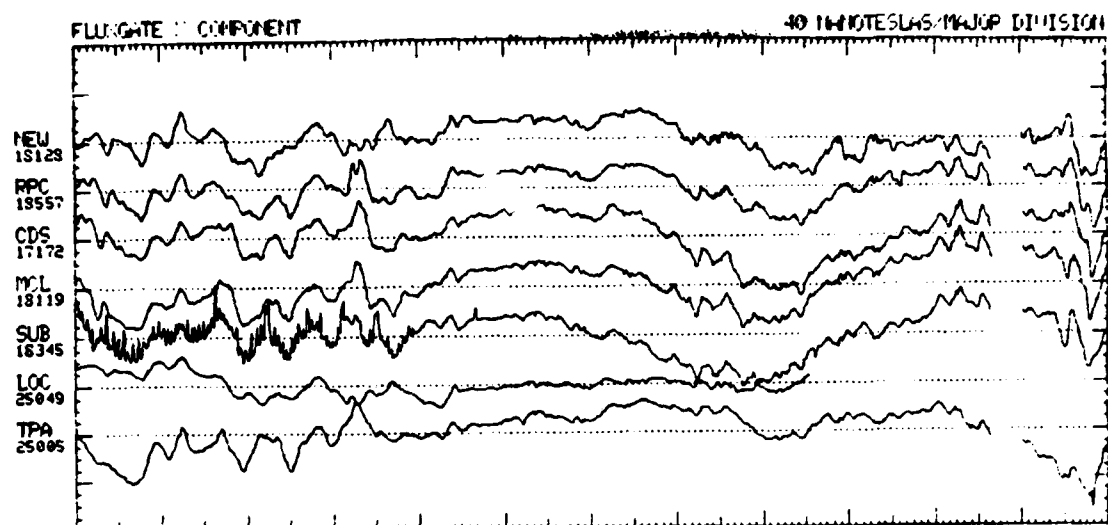


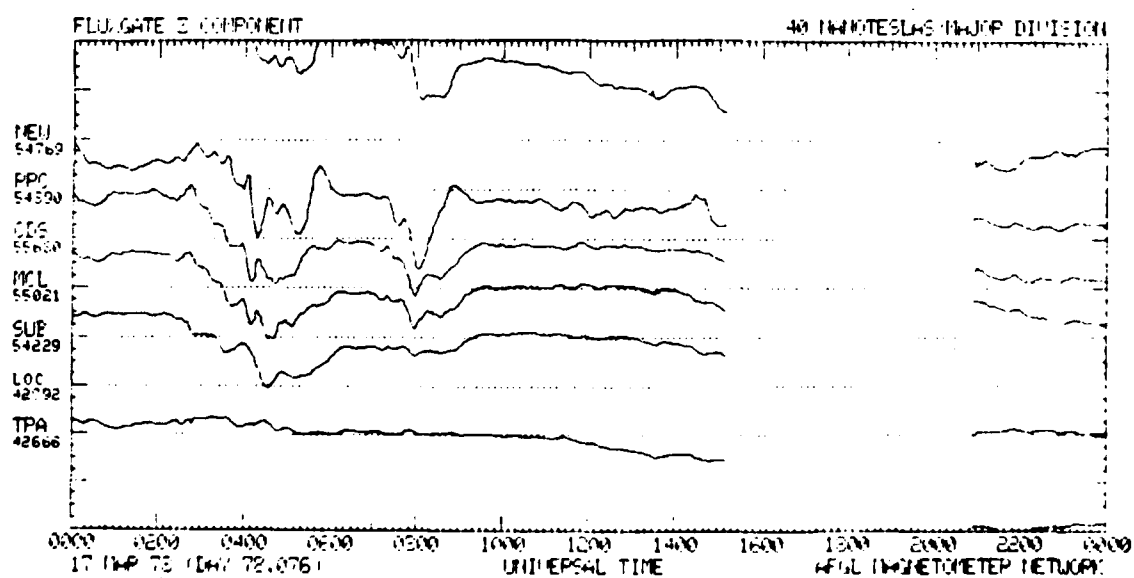
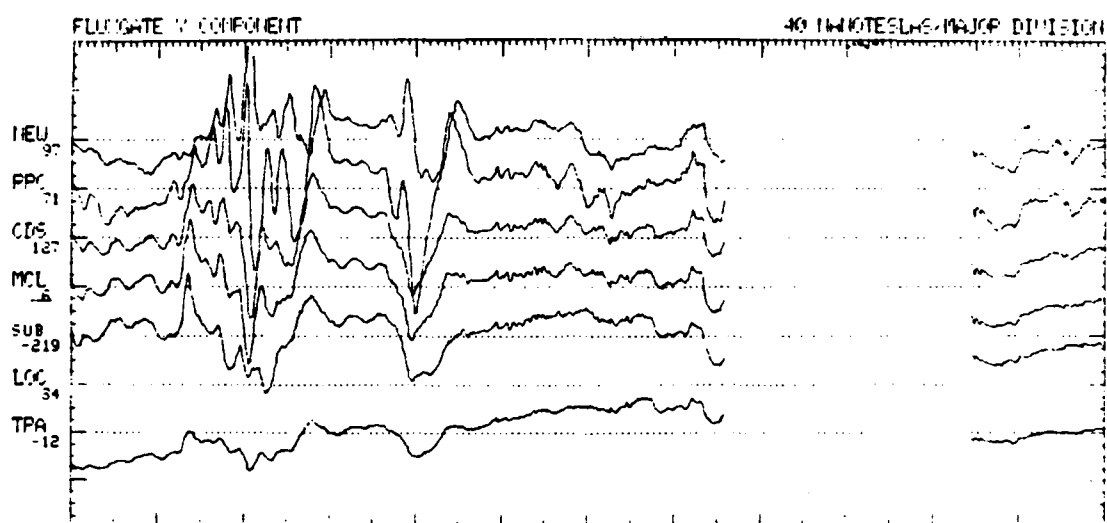
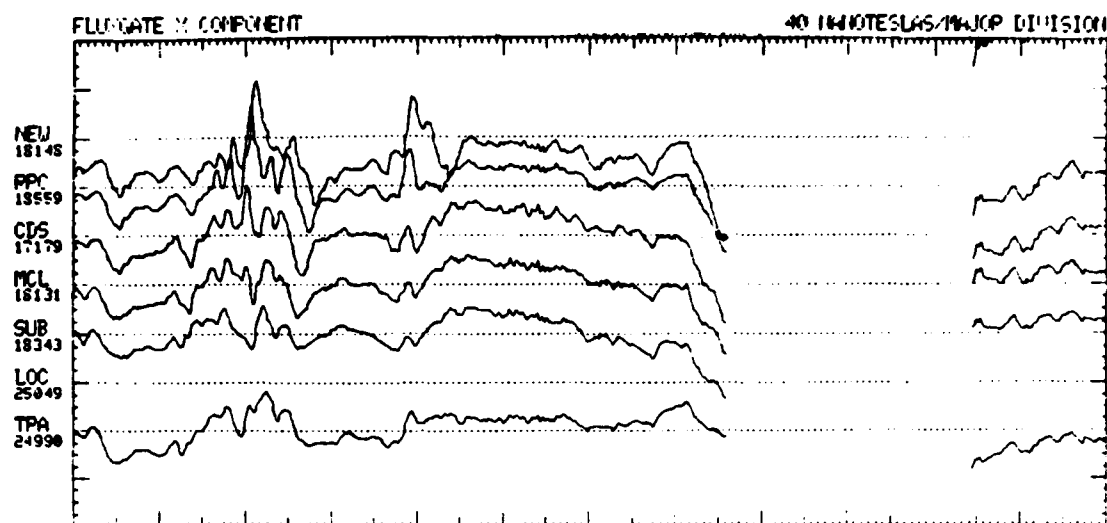


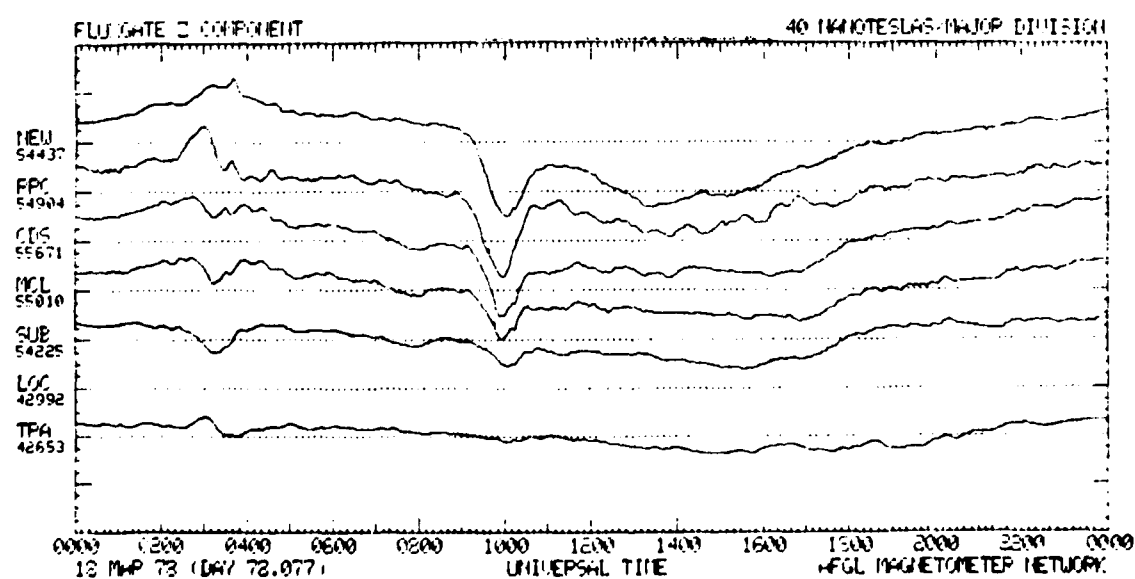
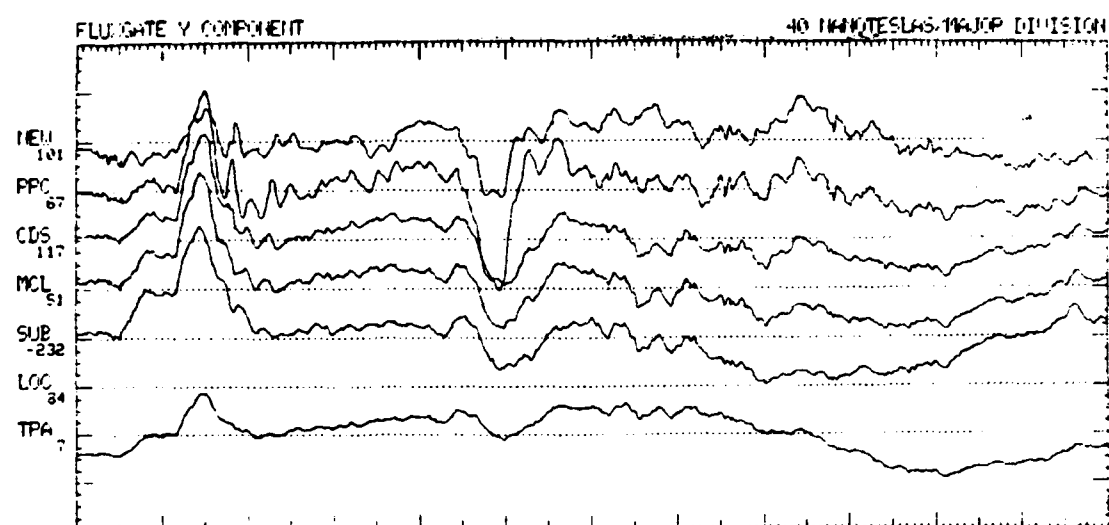
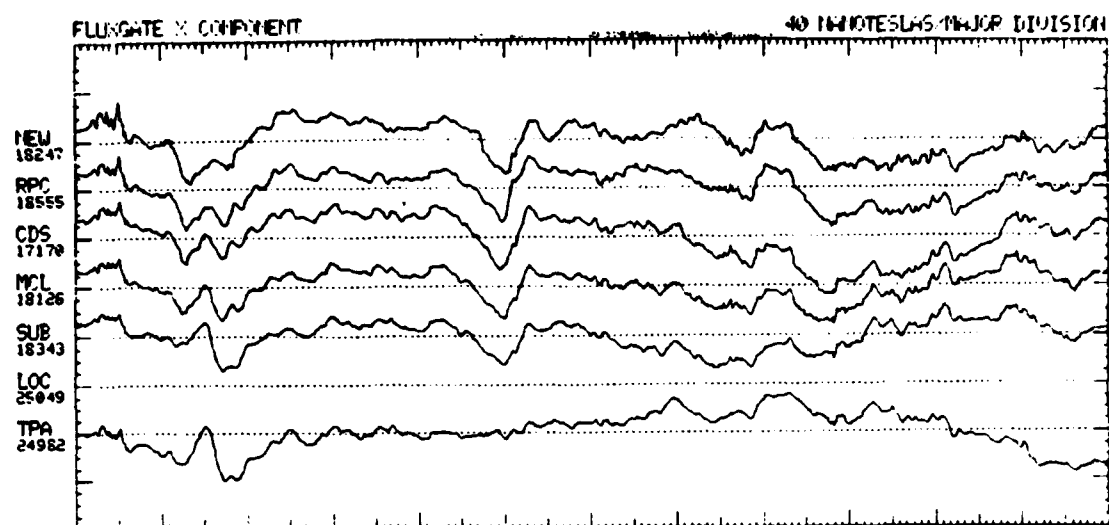


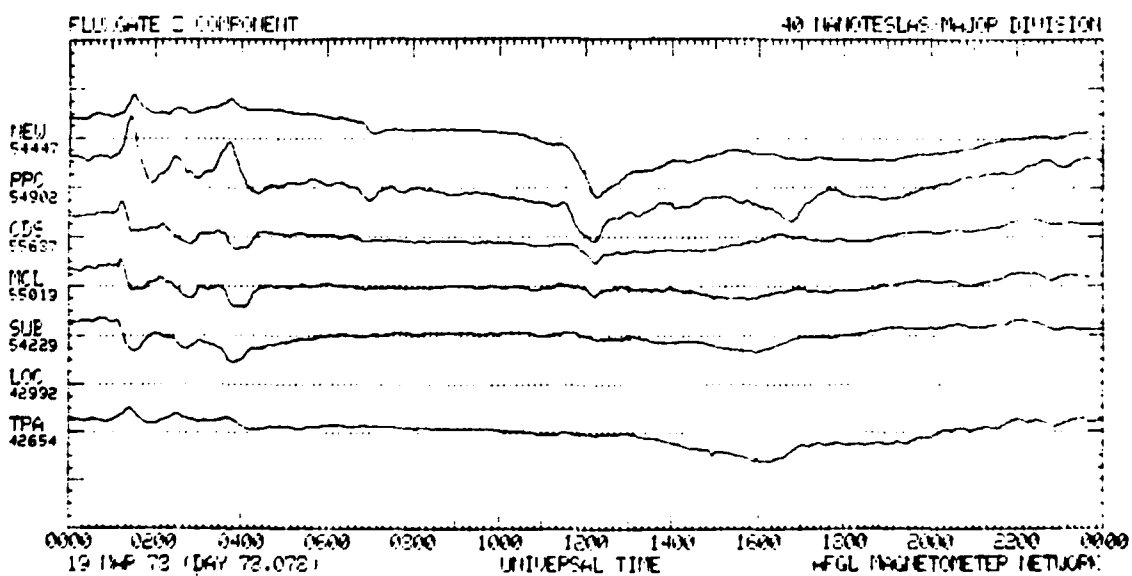
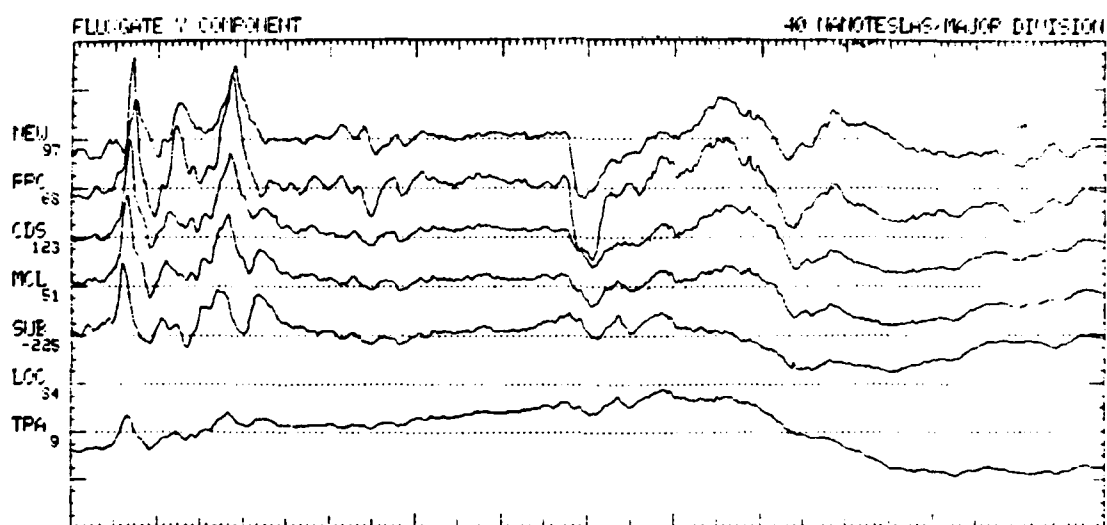
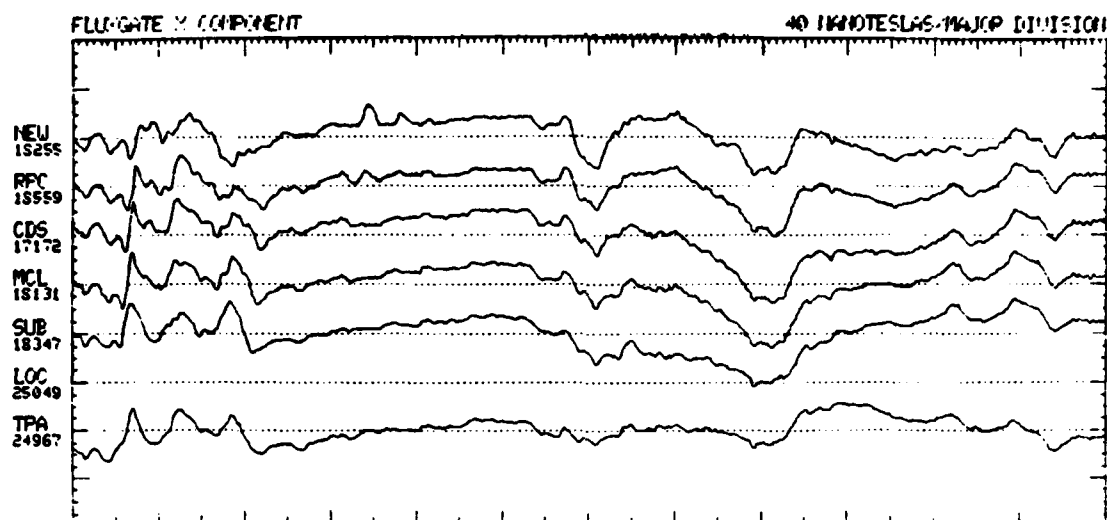


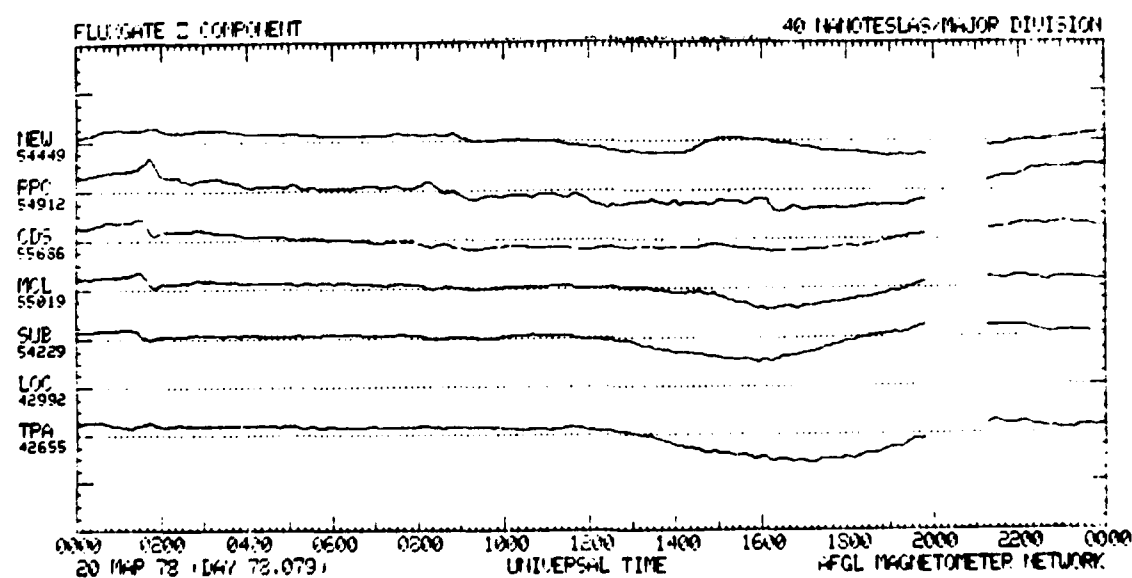
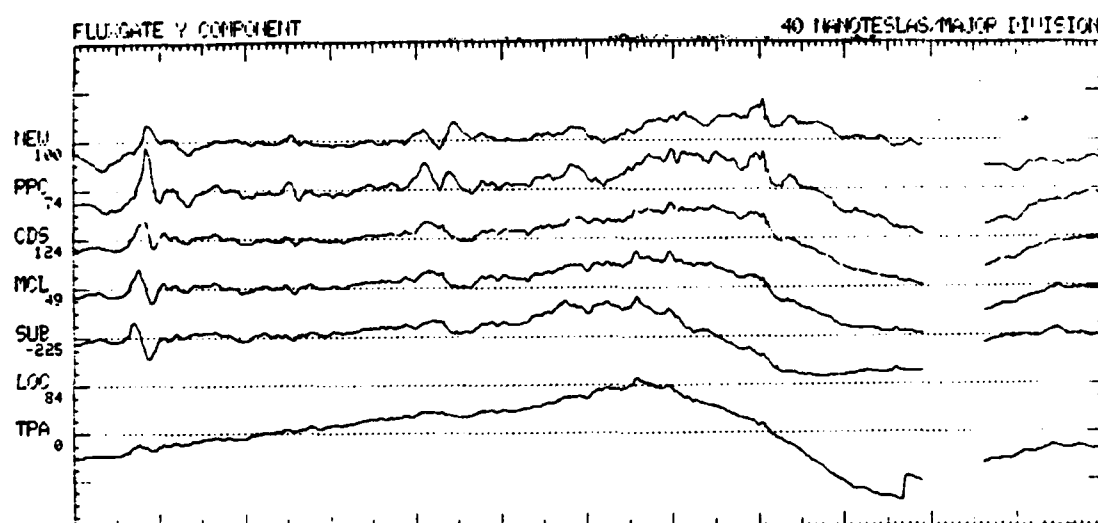
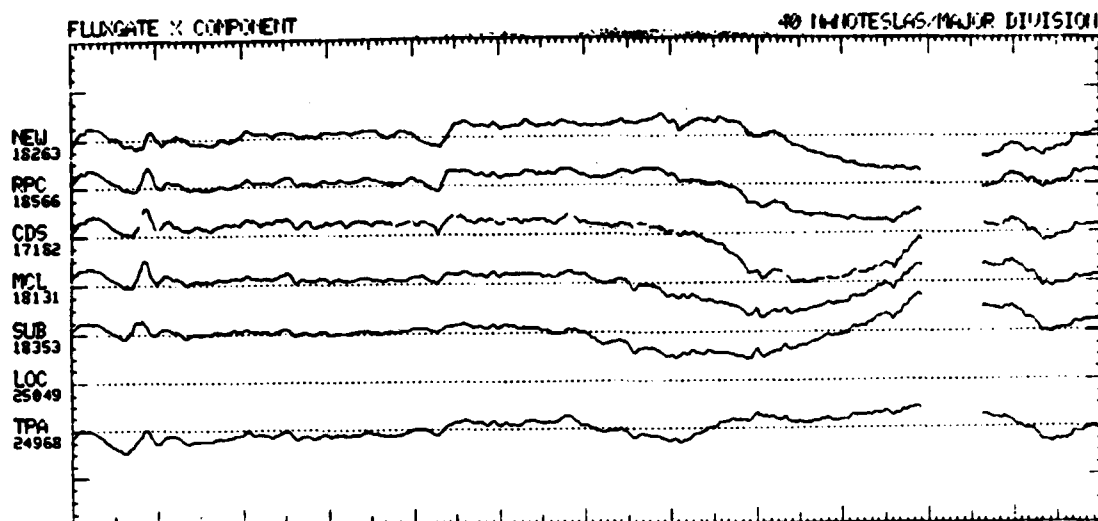


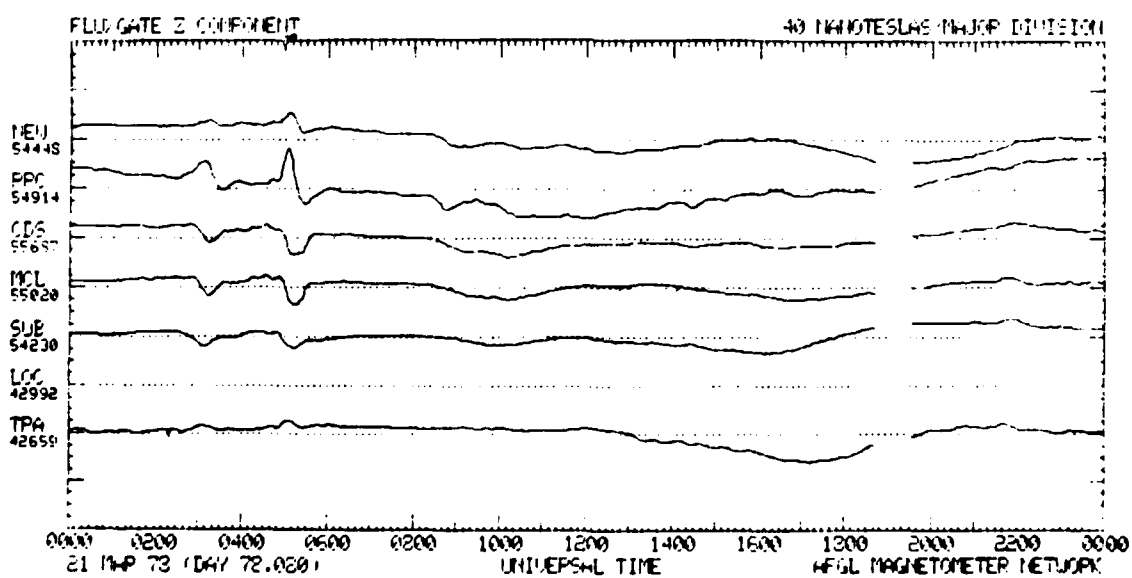
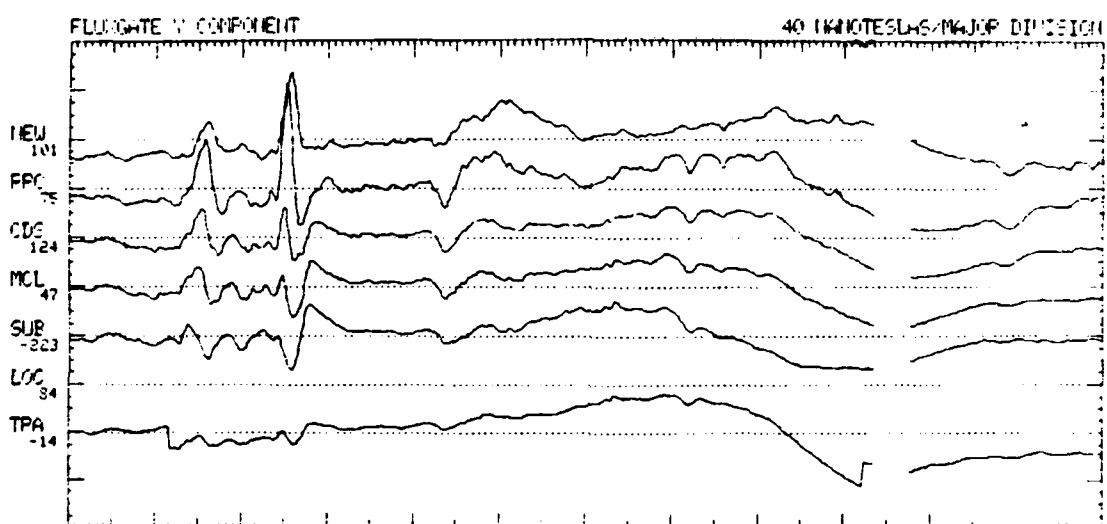
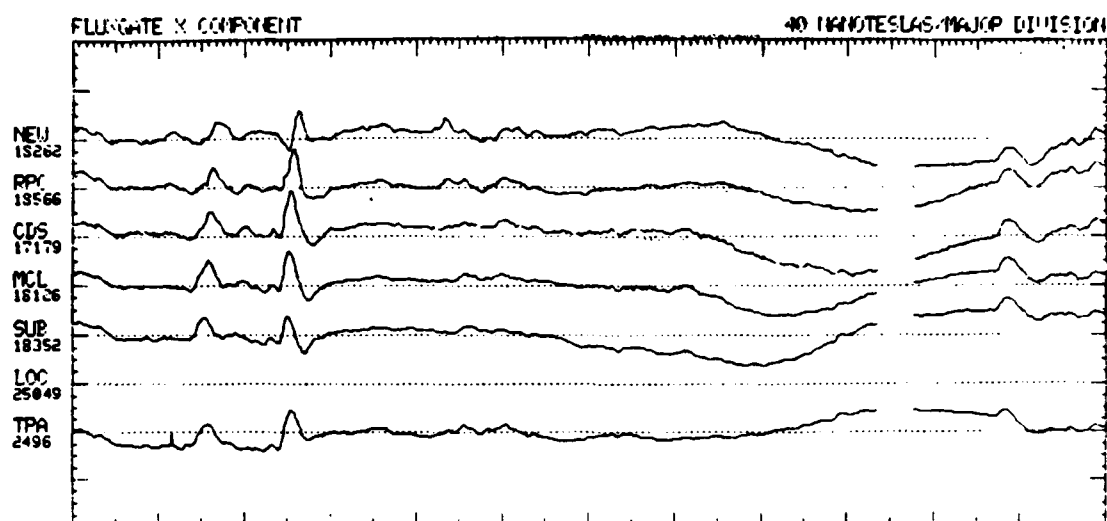


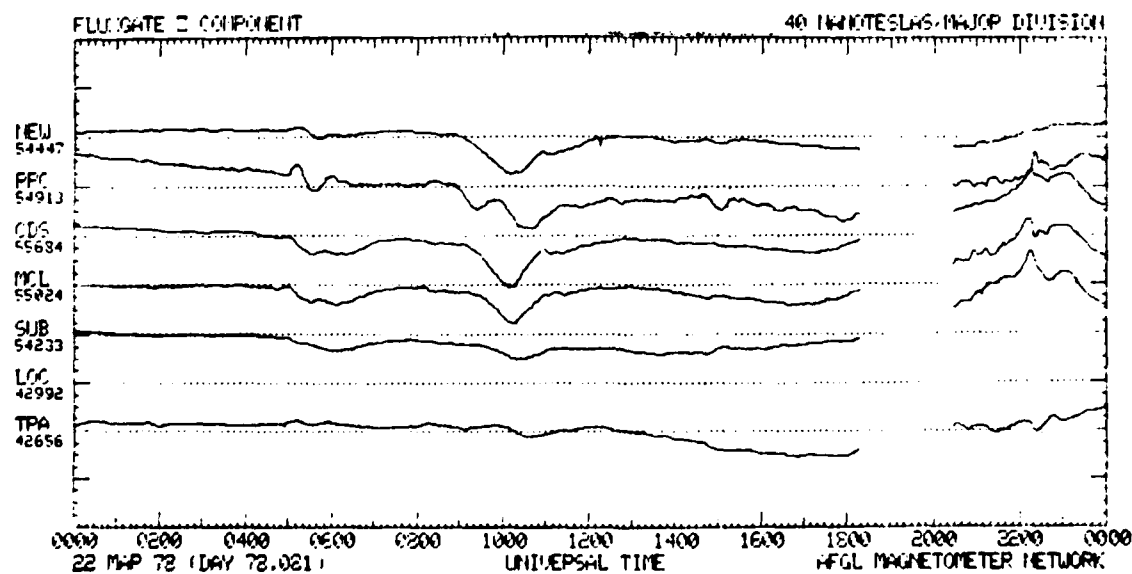
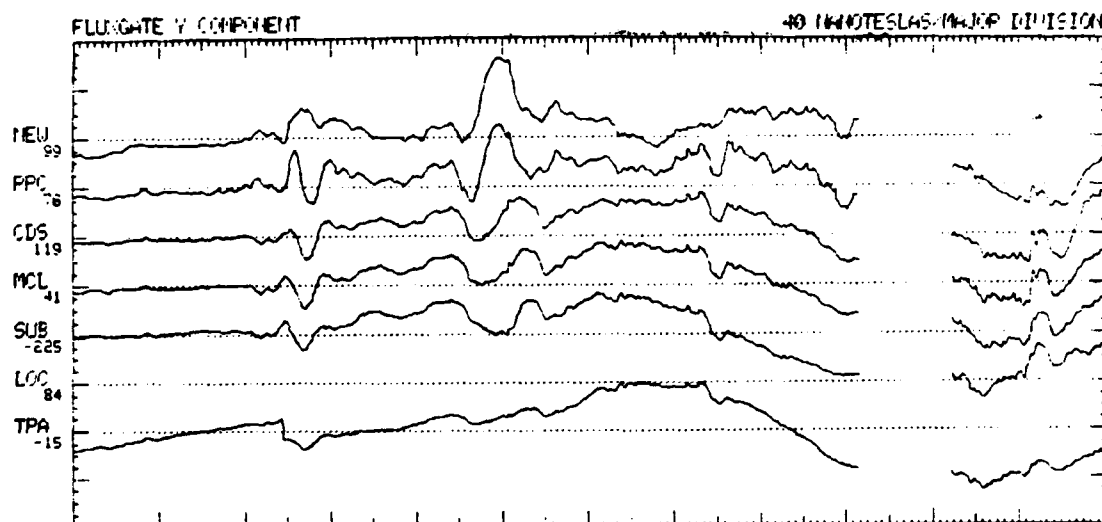
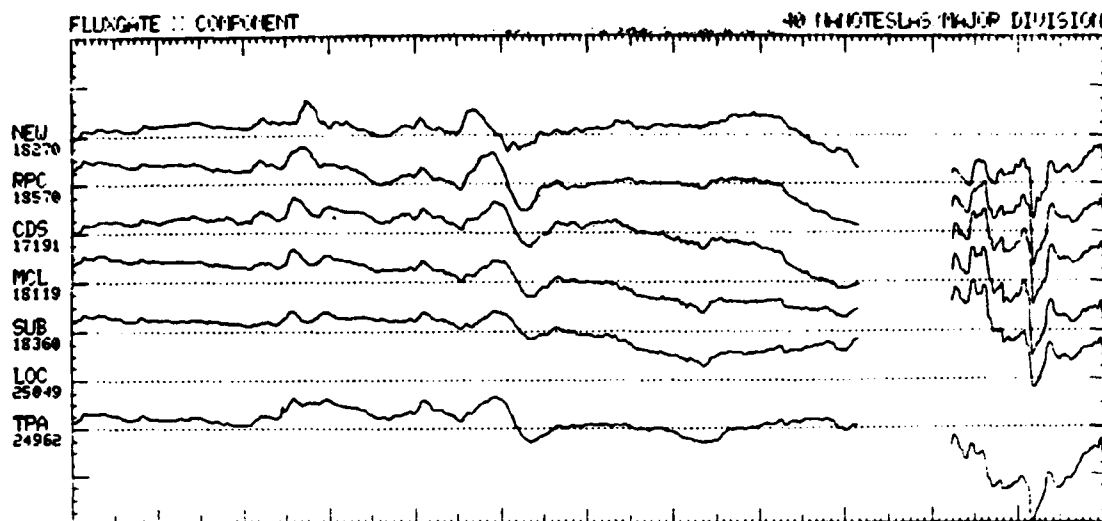


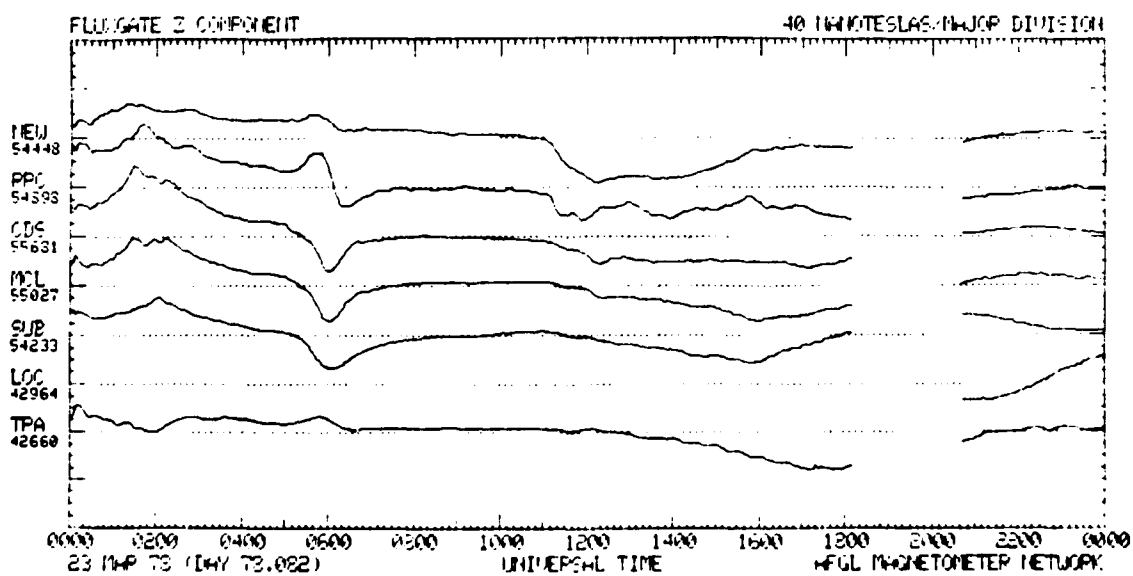
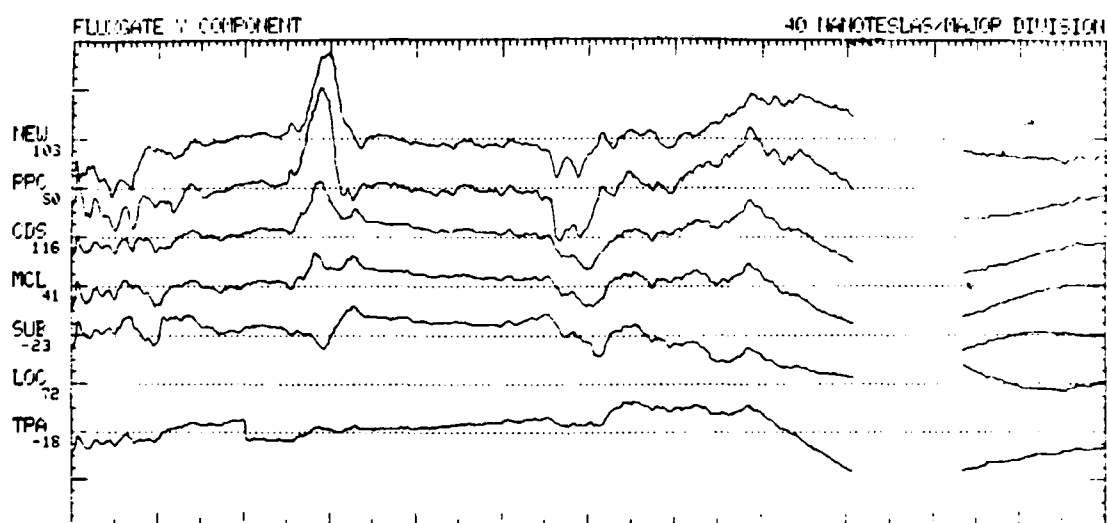
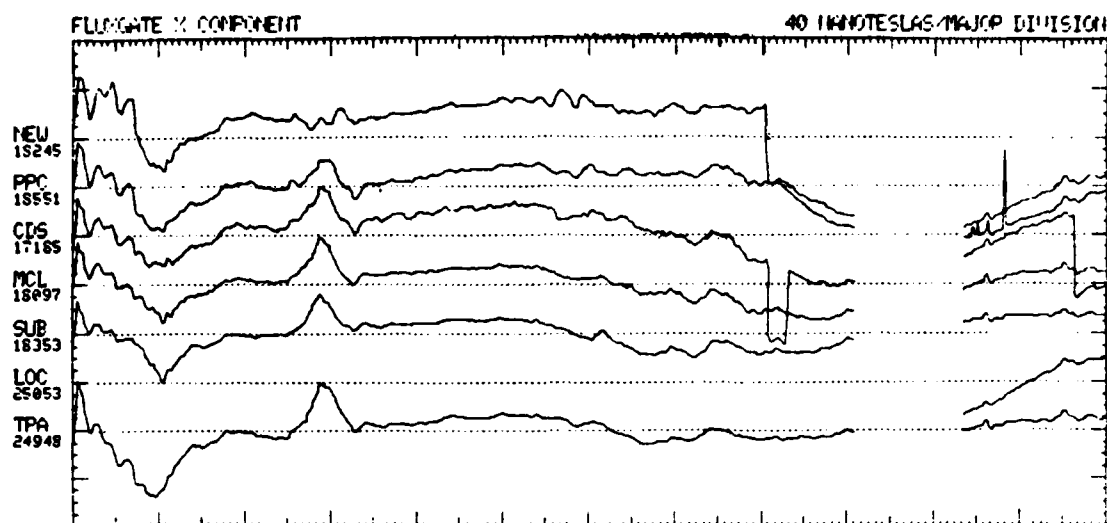


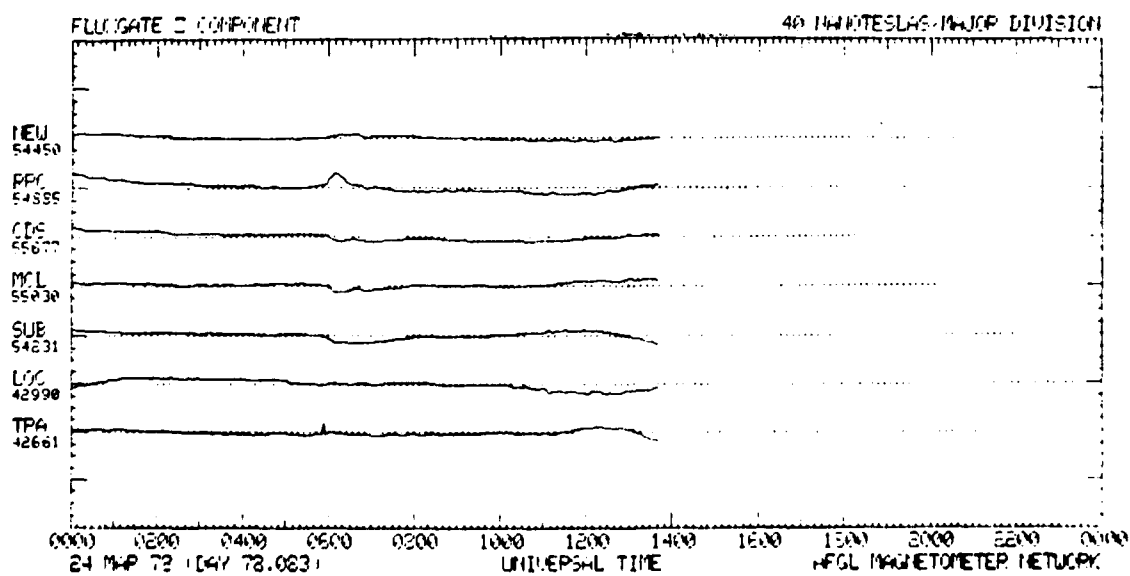
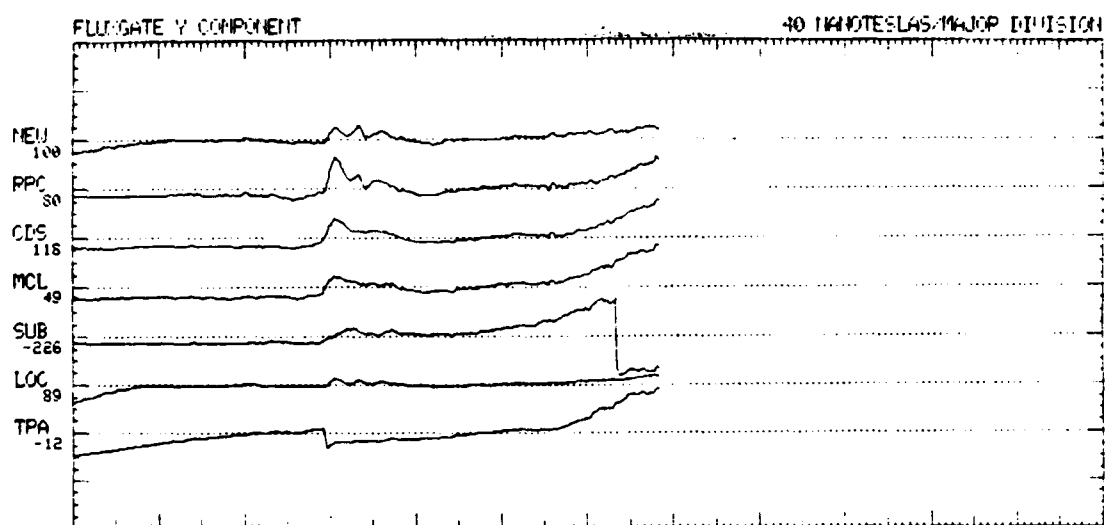
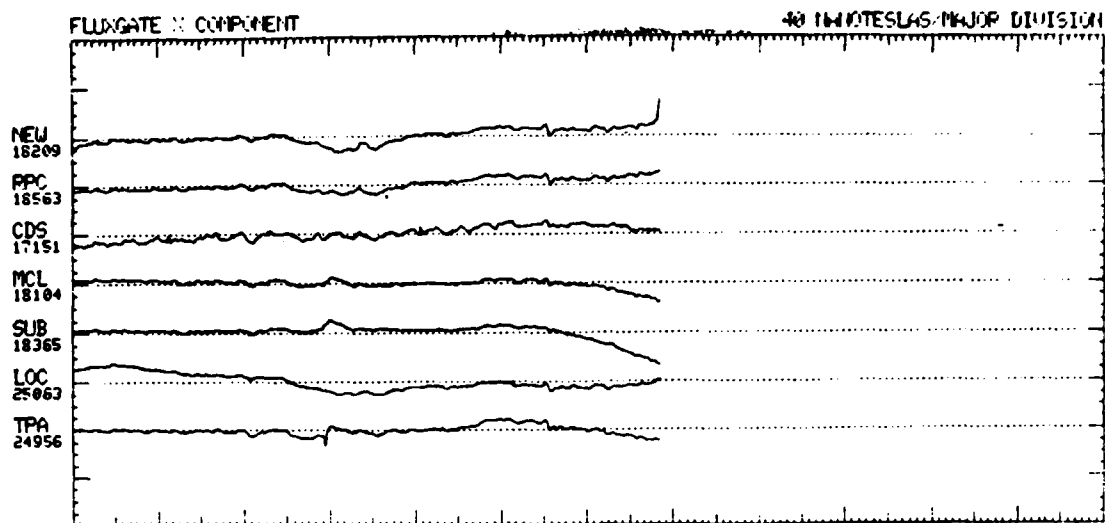












AD-A168 759 DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS LAB HANSCOM AFB MA D J KNECHT 08 JAN 85 2/3

DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 08 JAN 85 F/G 8/14
AFGL-TR-85-0027

2/3

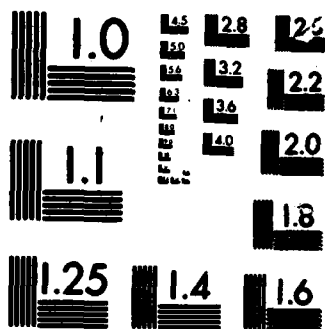
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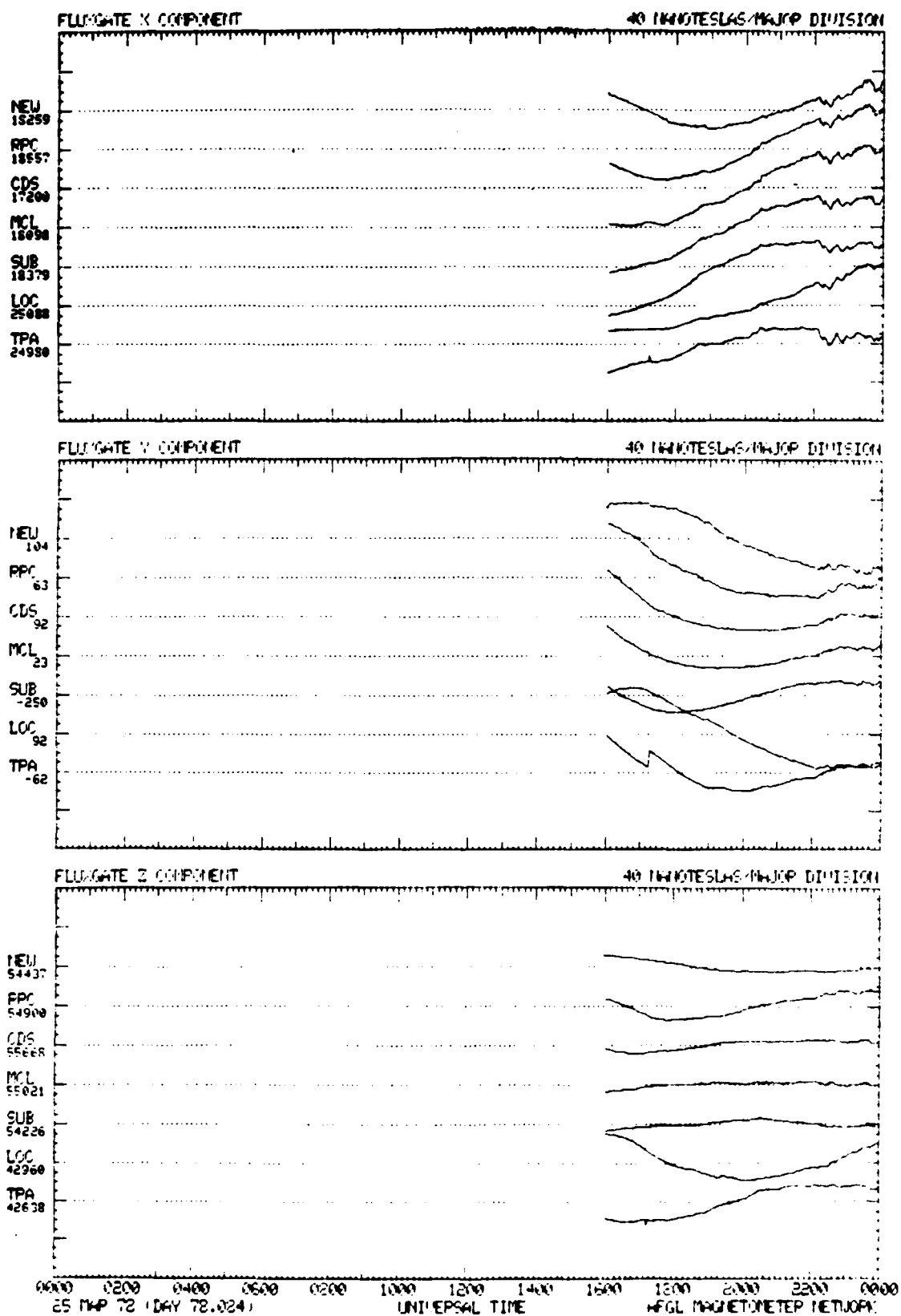
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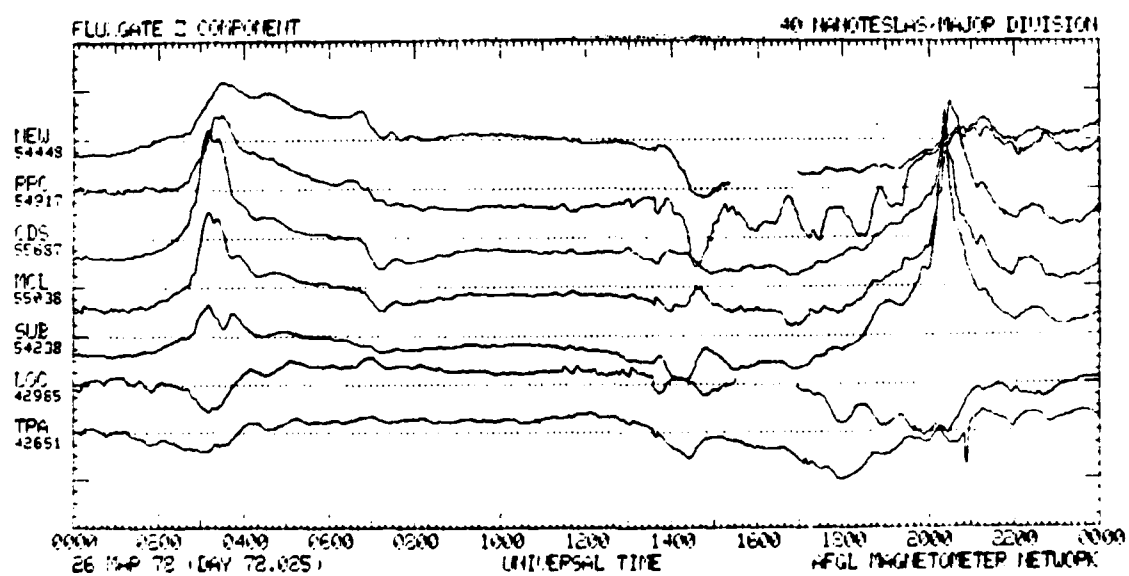
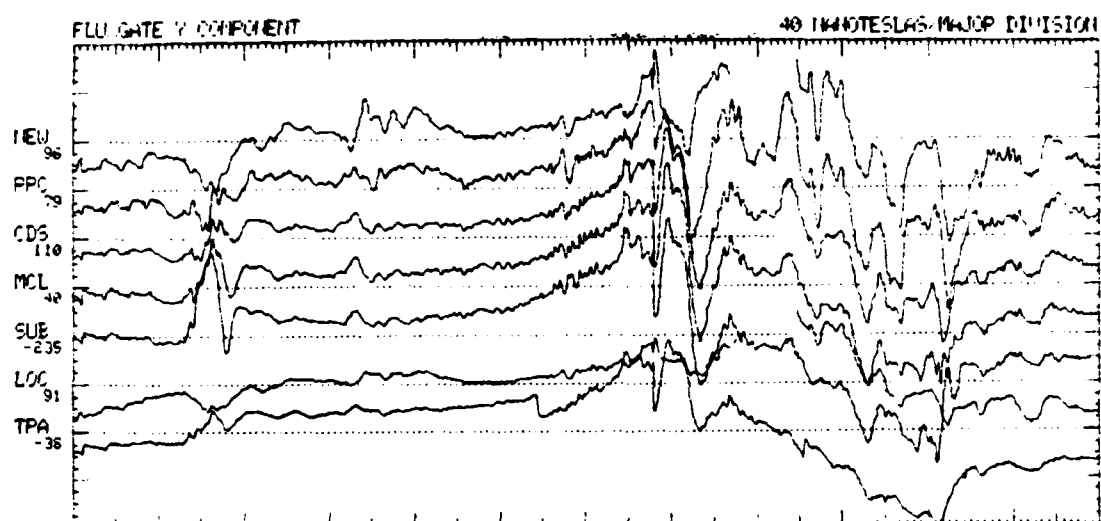
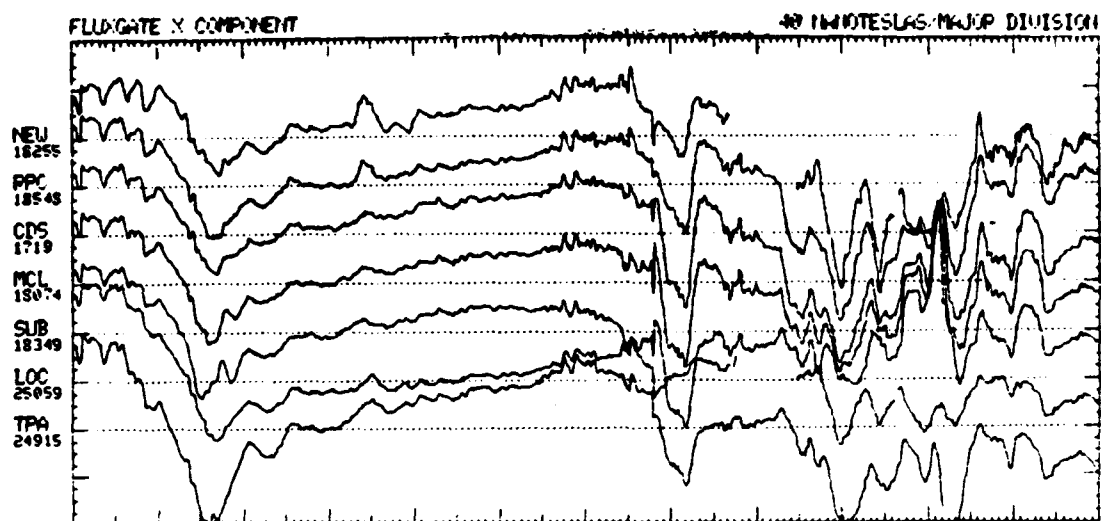
F/G 8/14

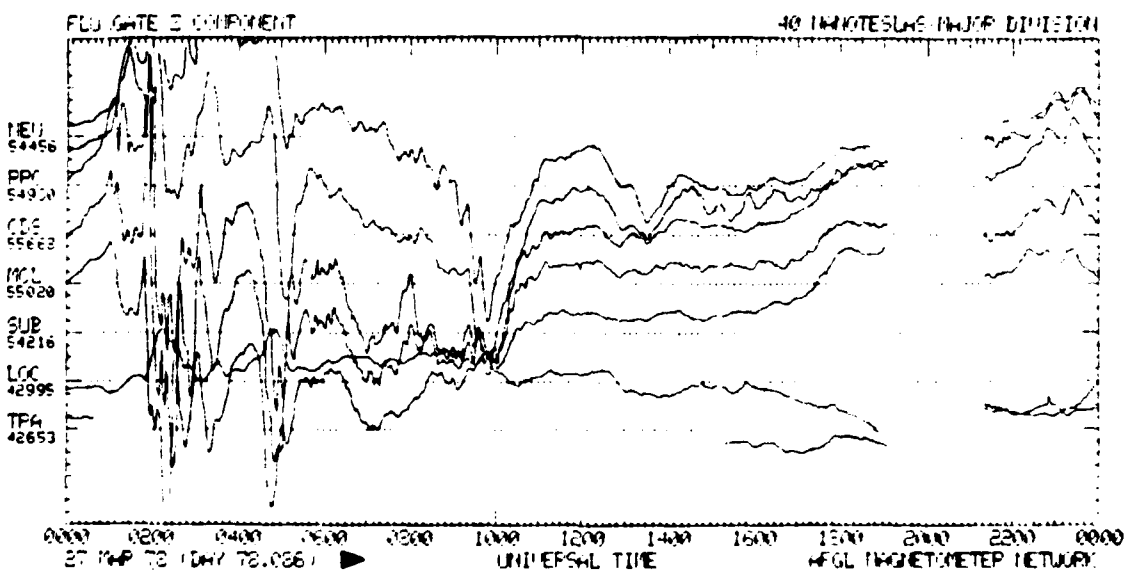
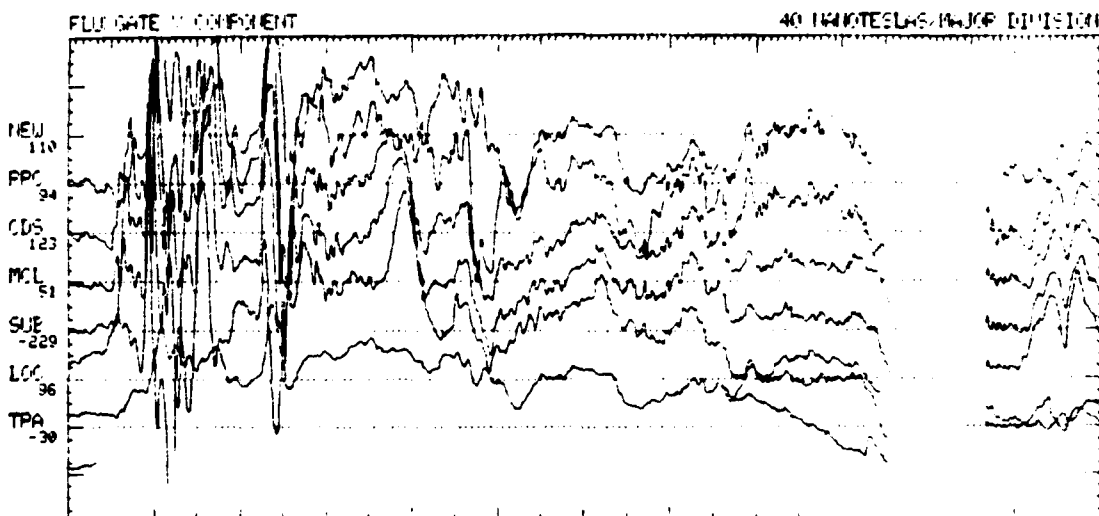
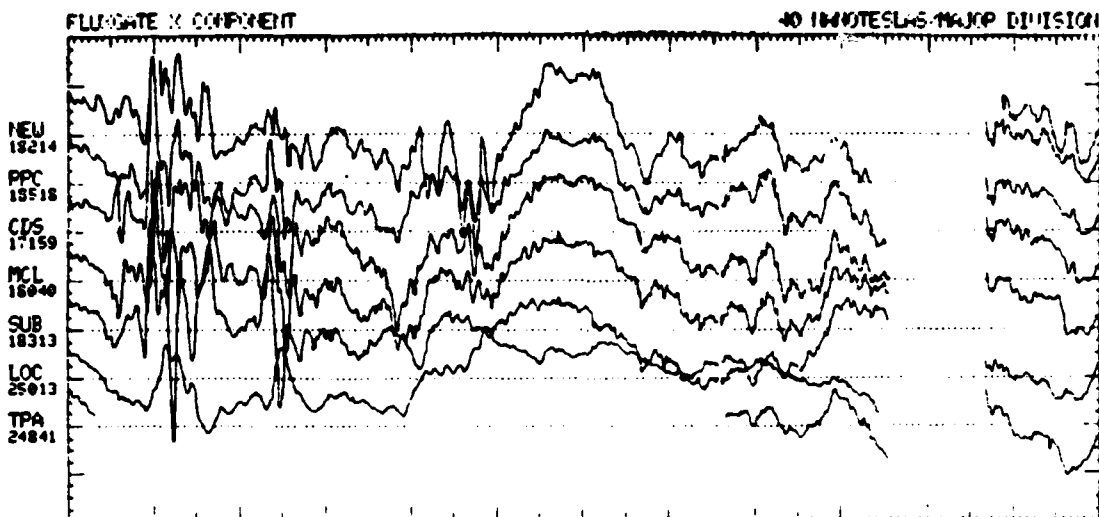
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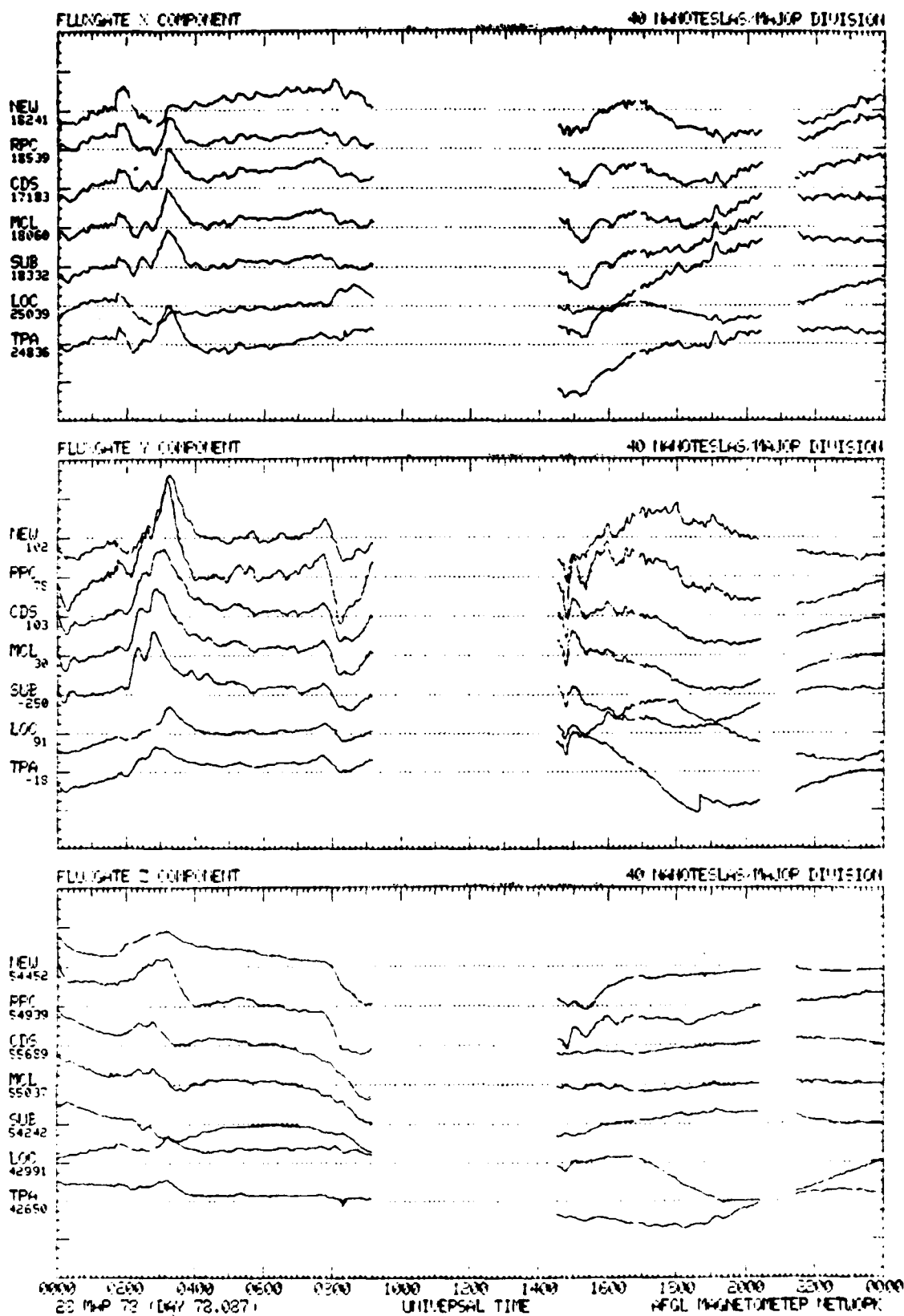
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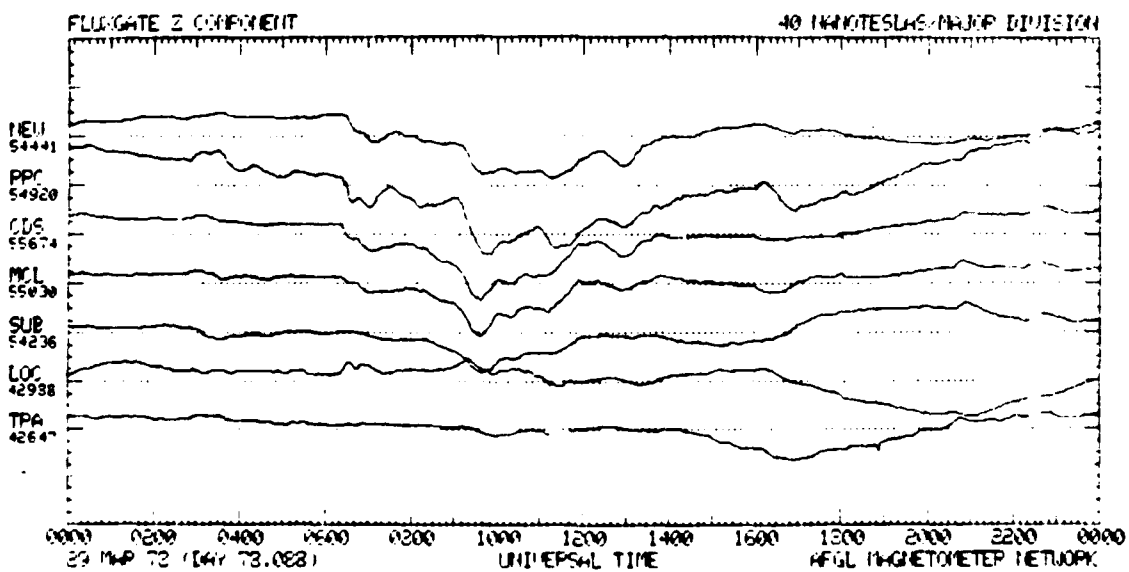
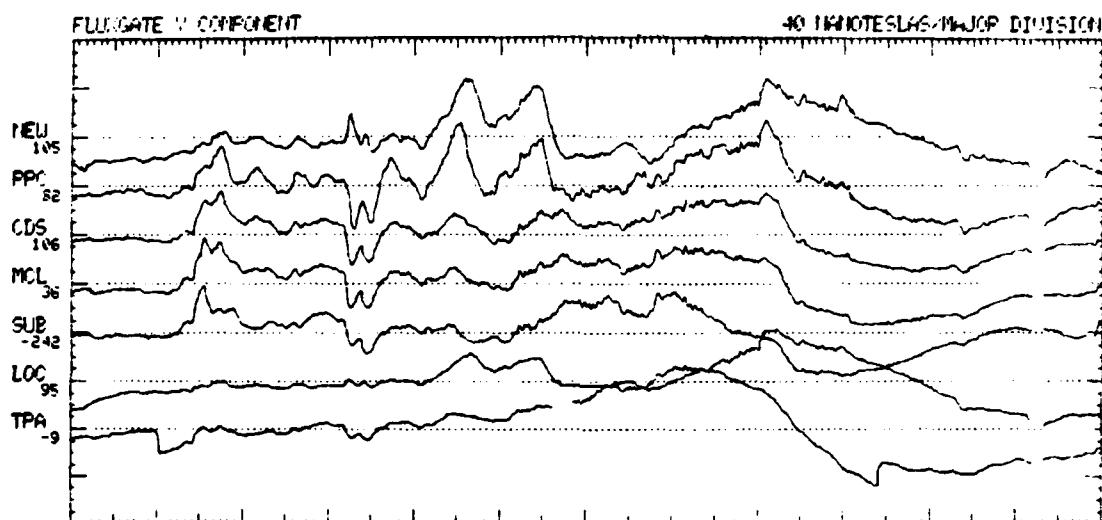
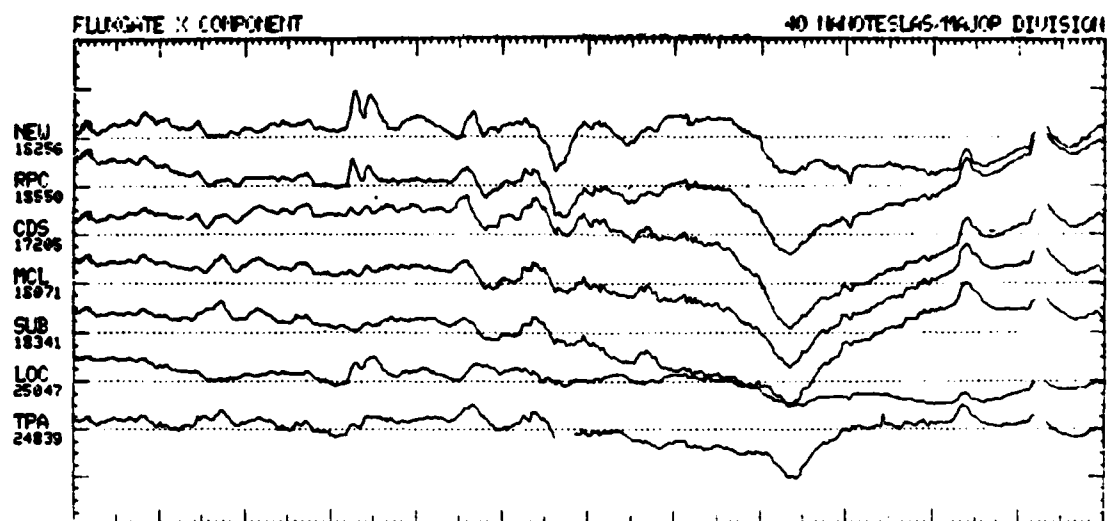








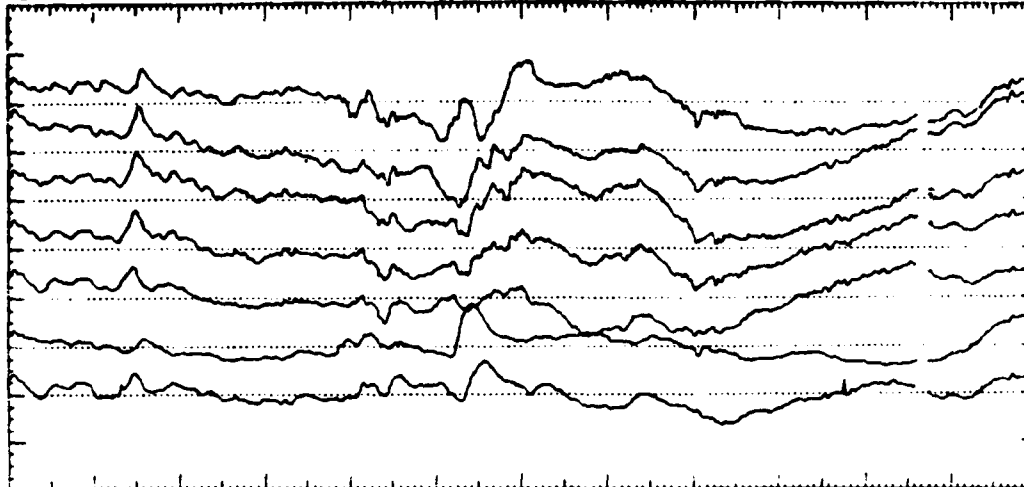




FLUXGATE X COMPONENT

40 INWOTESLAS/MAJOR DIVISION

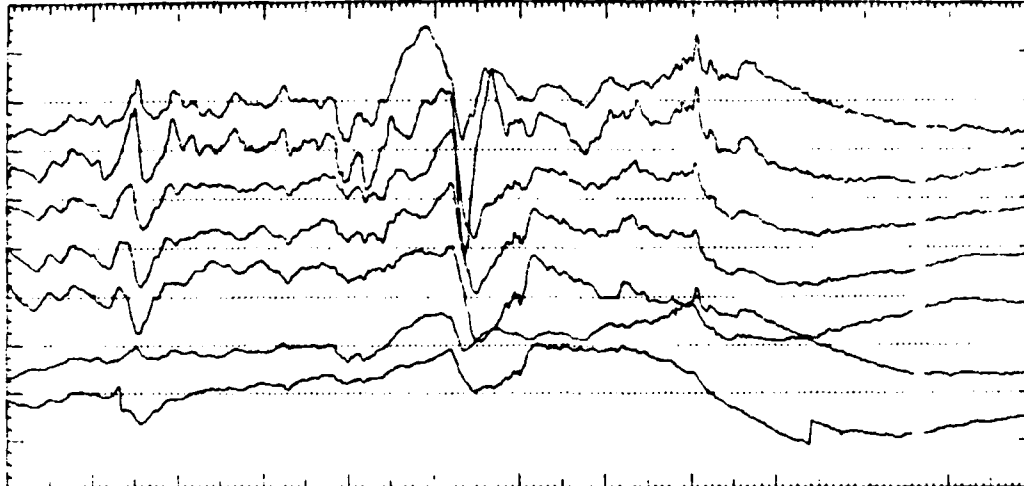
NEU
18246
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FLUXGATE Y COMPONENT

40 INWOTESLAS/MAJOR DIVISION

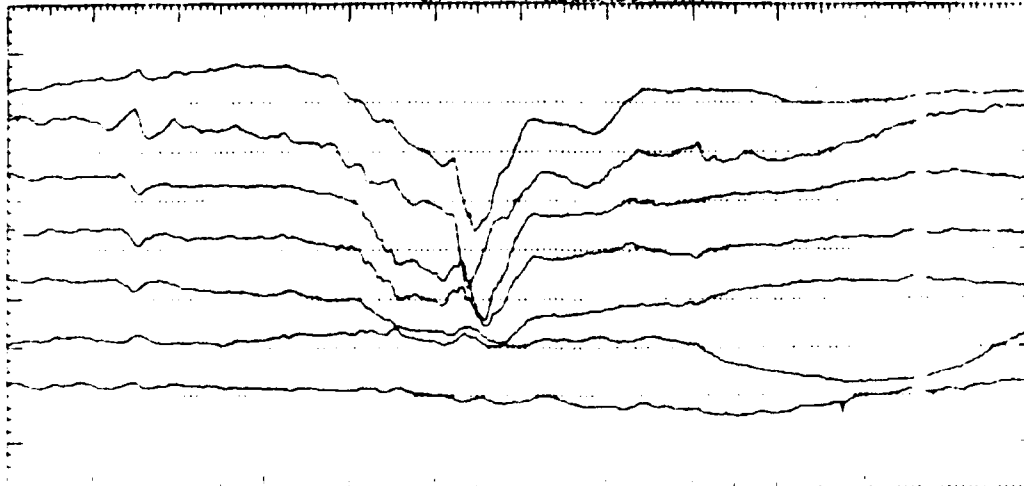
NEU
107
RPC
90
CDS
114
MCL
44
SUB
-235
LOC
96
TPA
-15



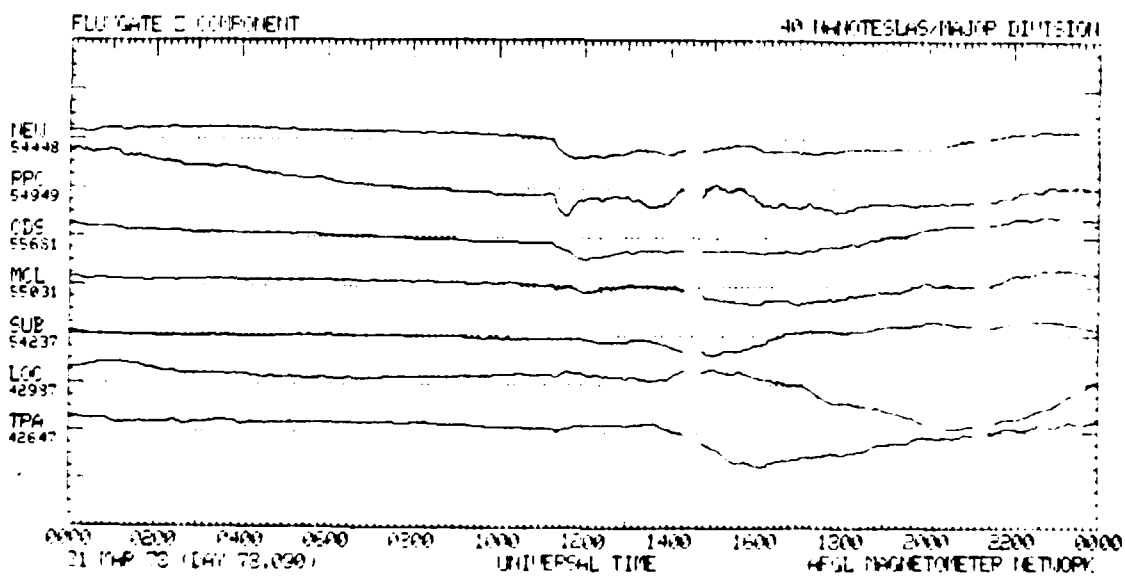
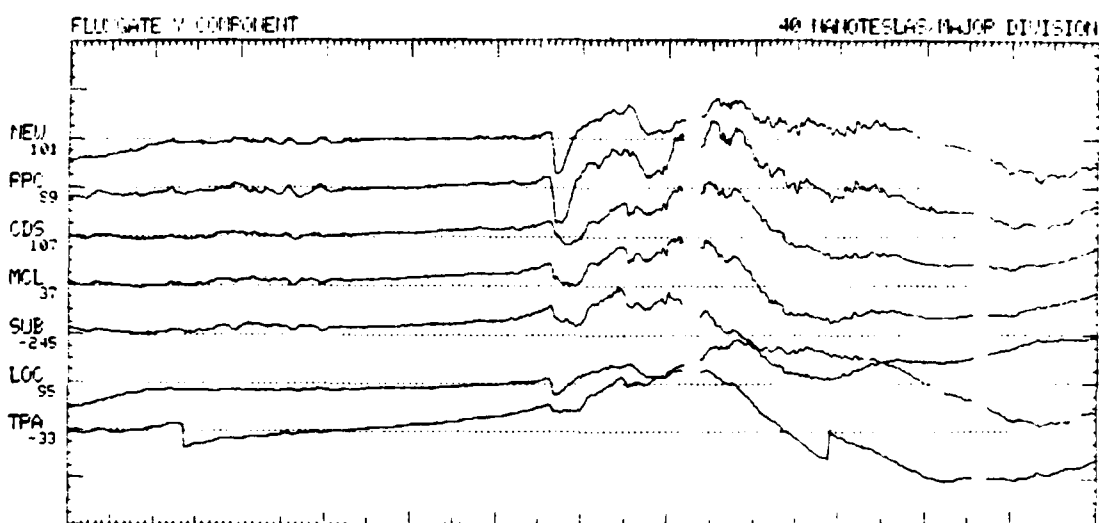
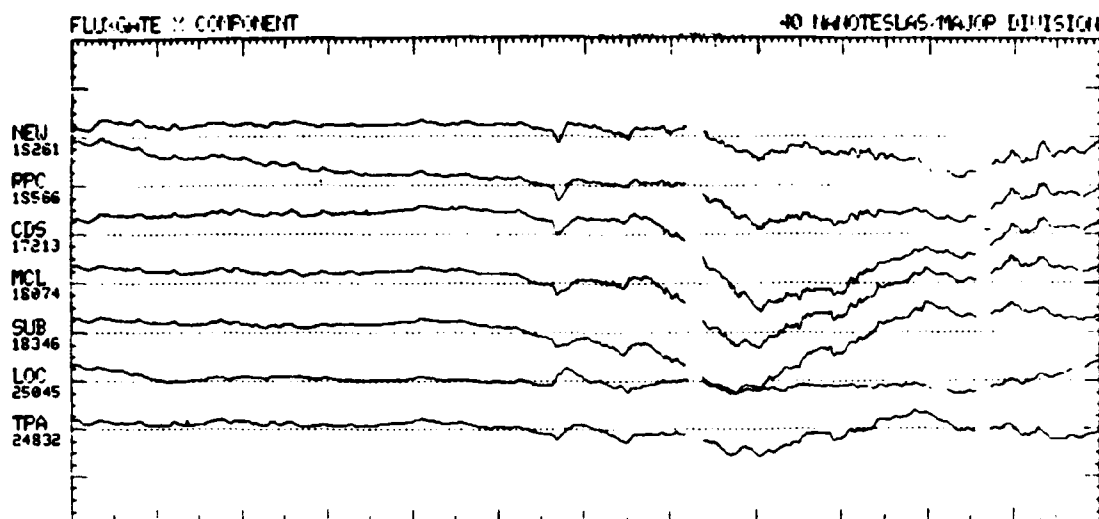
FLUXGATE Z COMPONENT

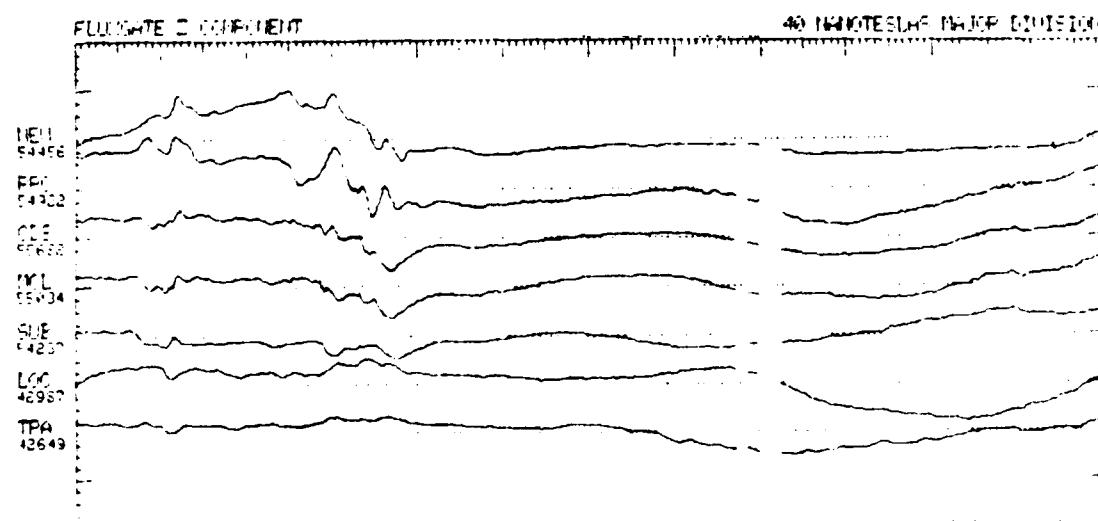
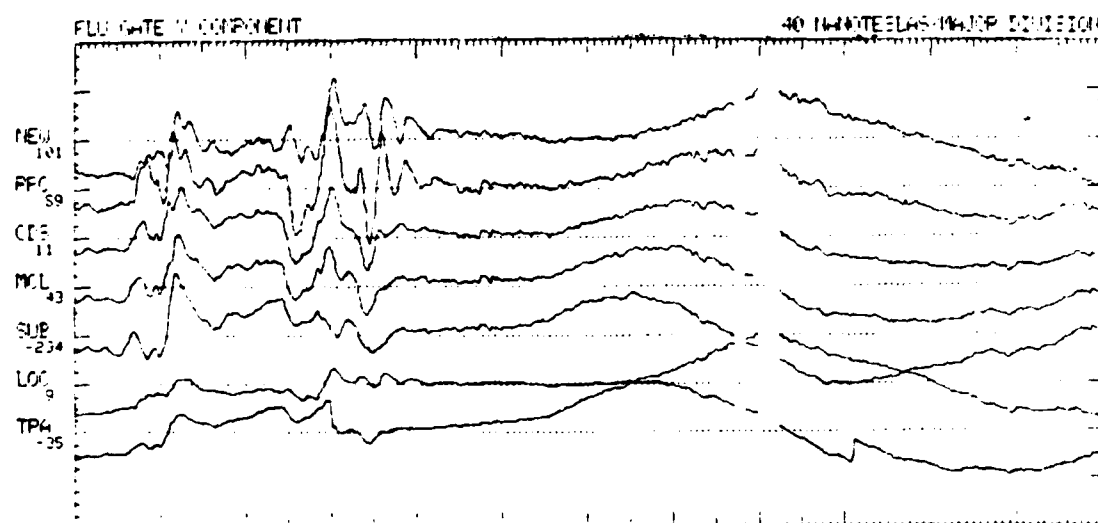
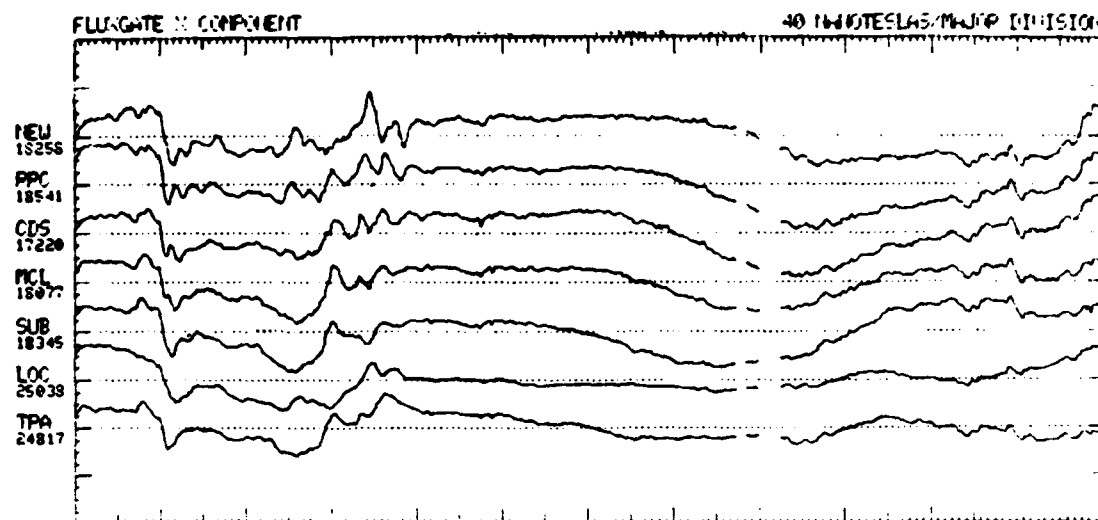
40 INWOTESLAS/MAJOR DIVISION

NEU
54445
RPC
54942
CDS
55673
MCL
55027
SUB
54229
LOC
42926
TPA
42650

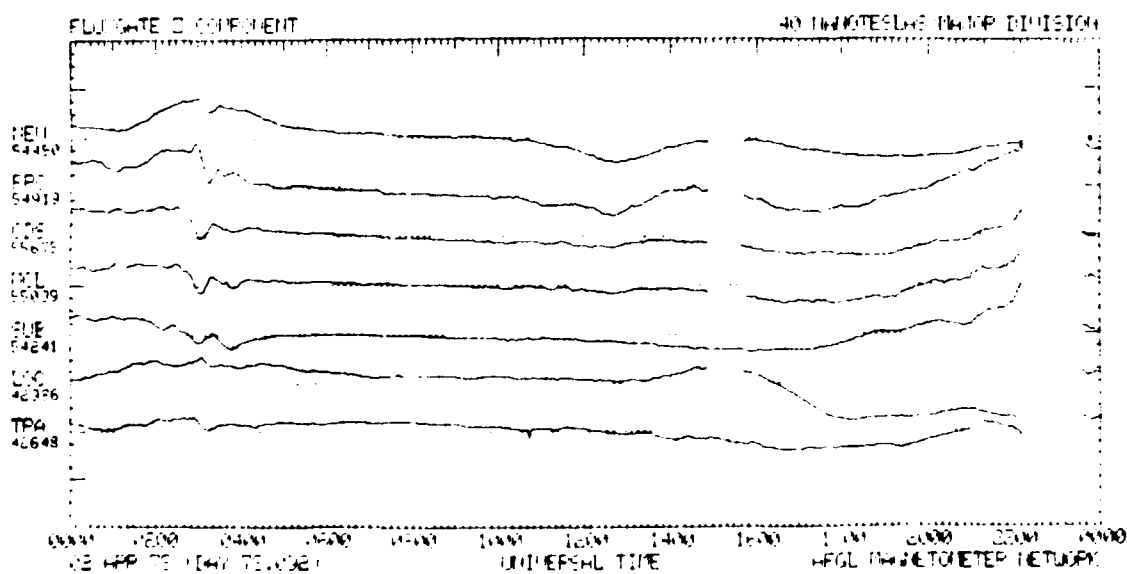
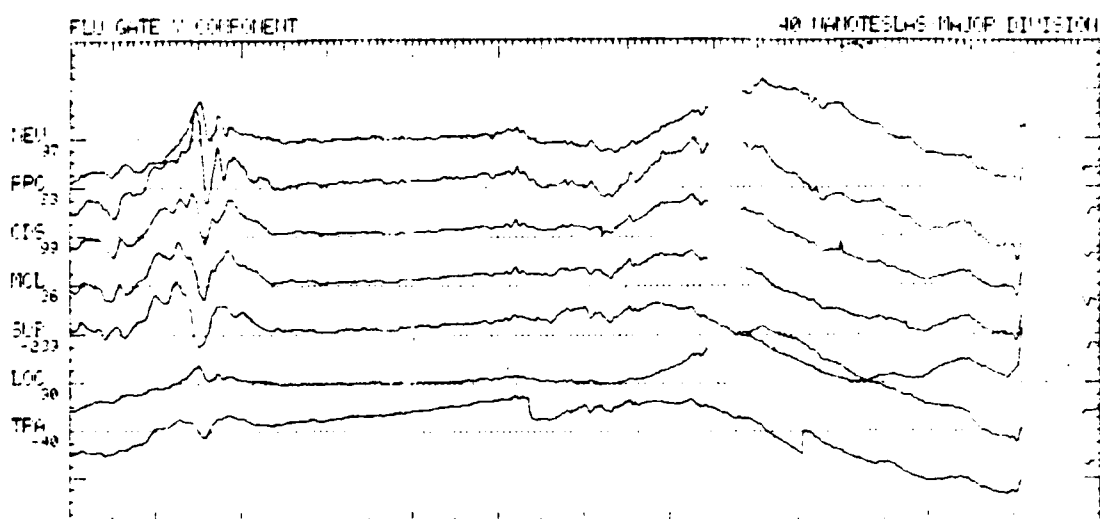
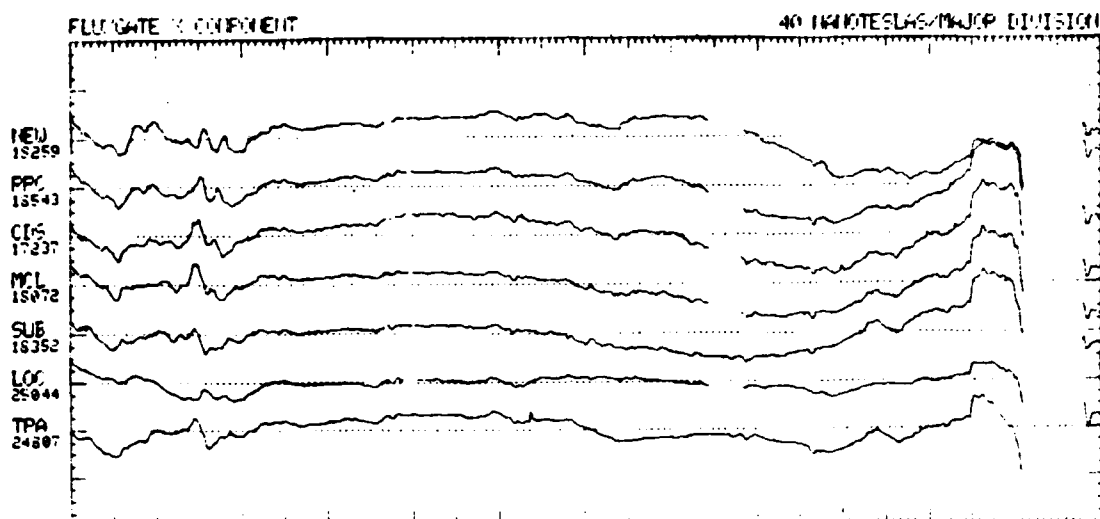


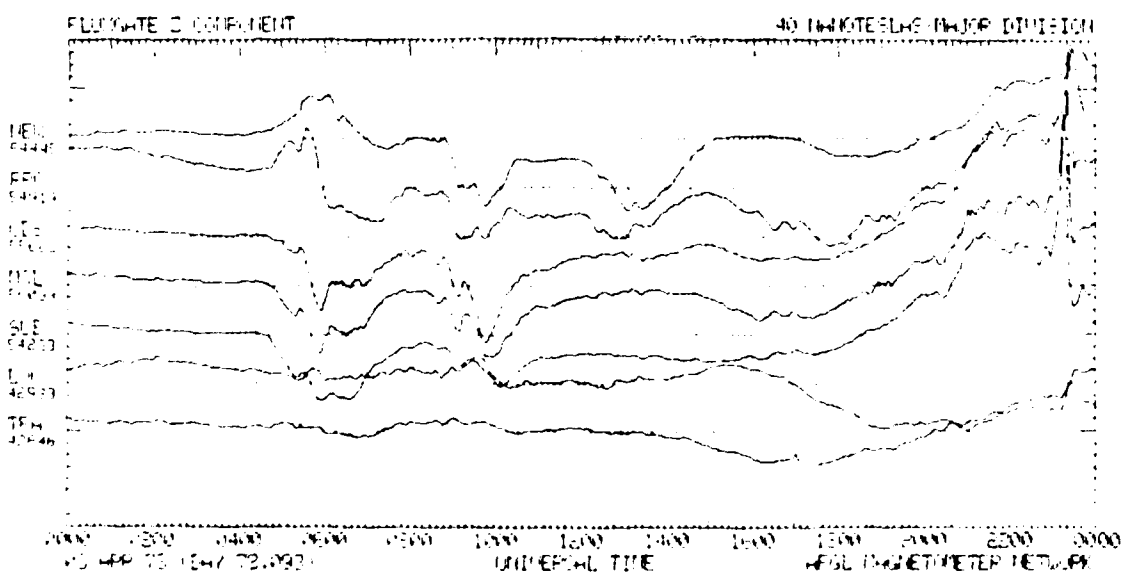
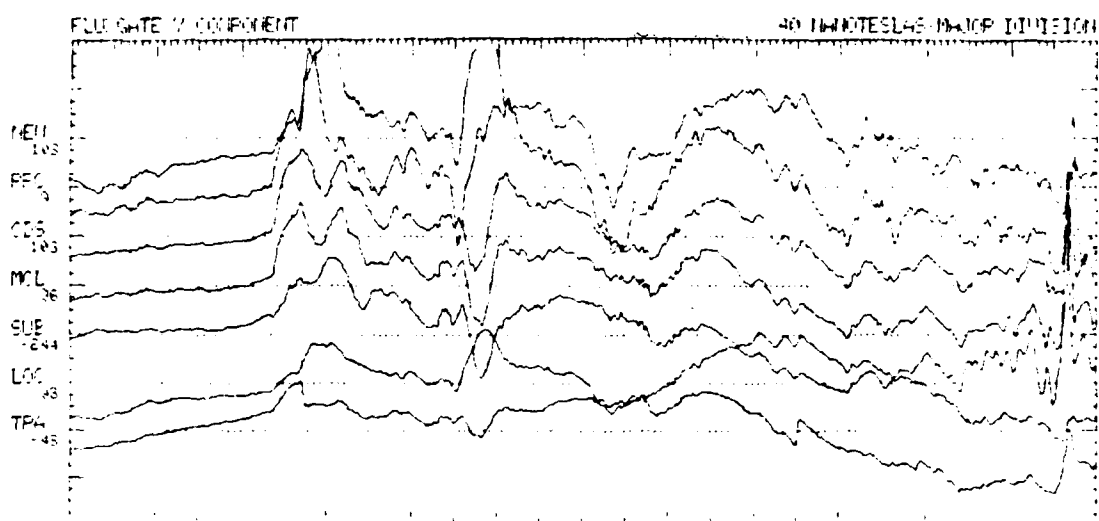
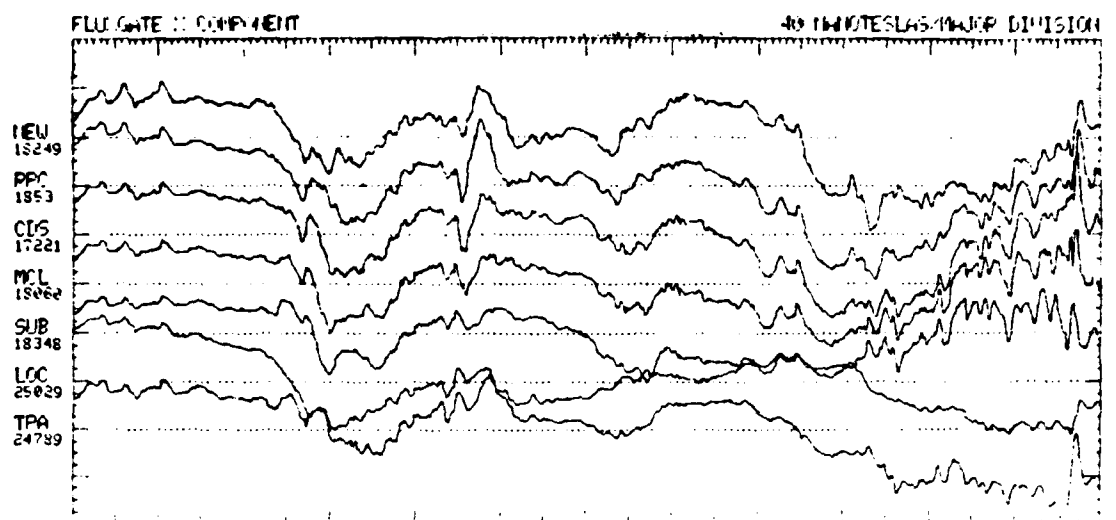
0000 0600 1200 1800 2400
20 MAR 73 (DAY 72.009) UNIVERSAL TIME HFGL MAGNETOMETER NETWORK

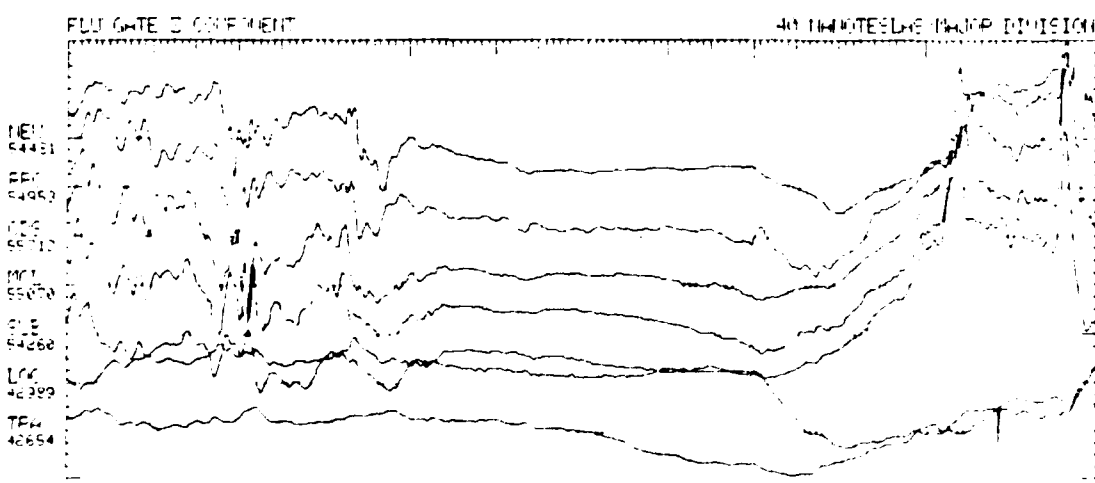
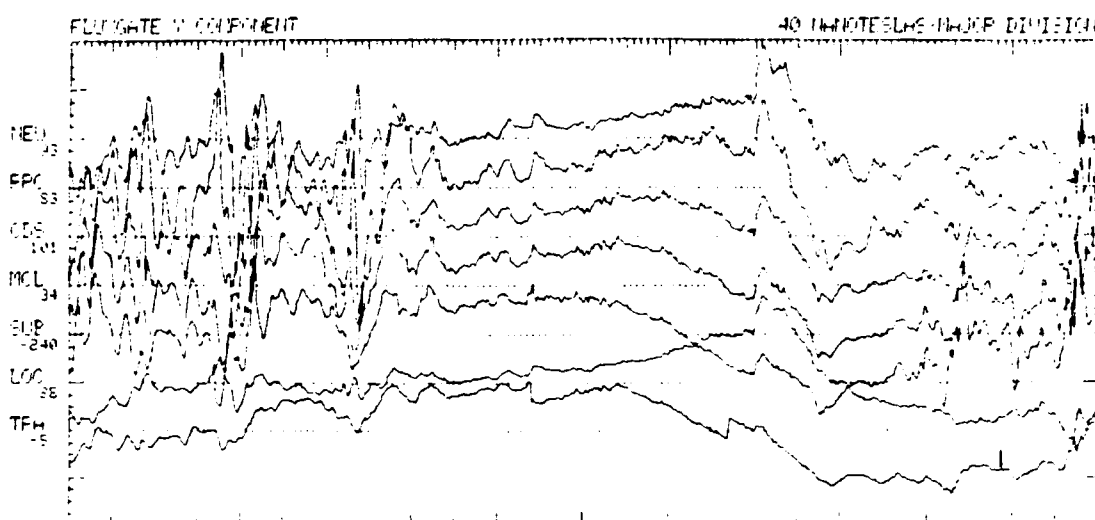
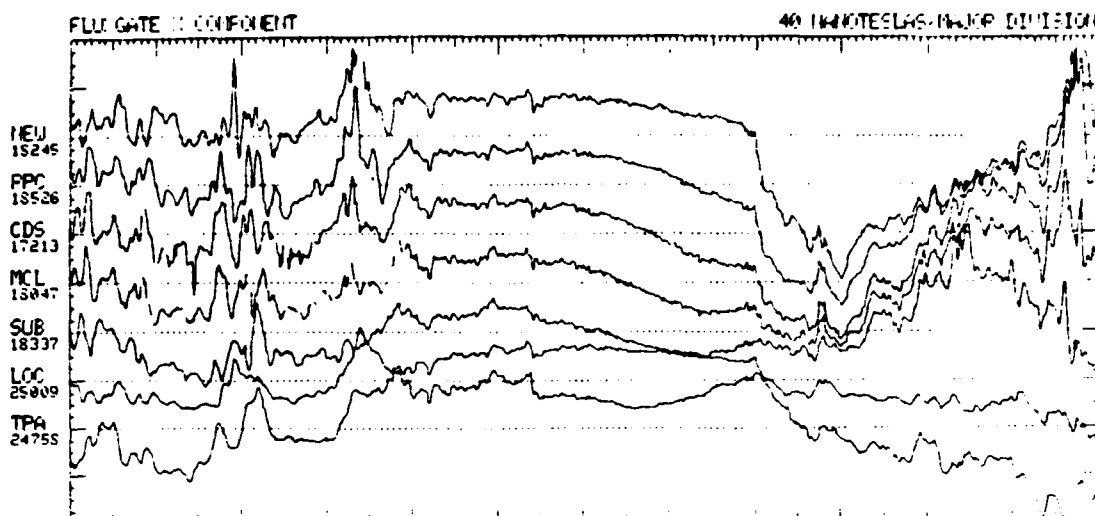




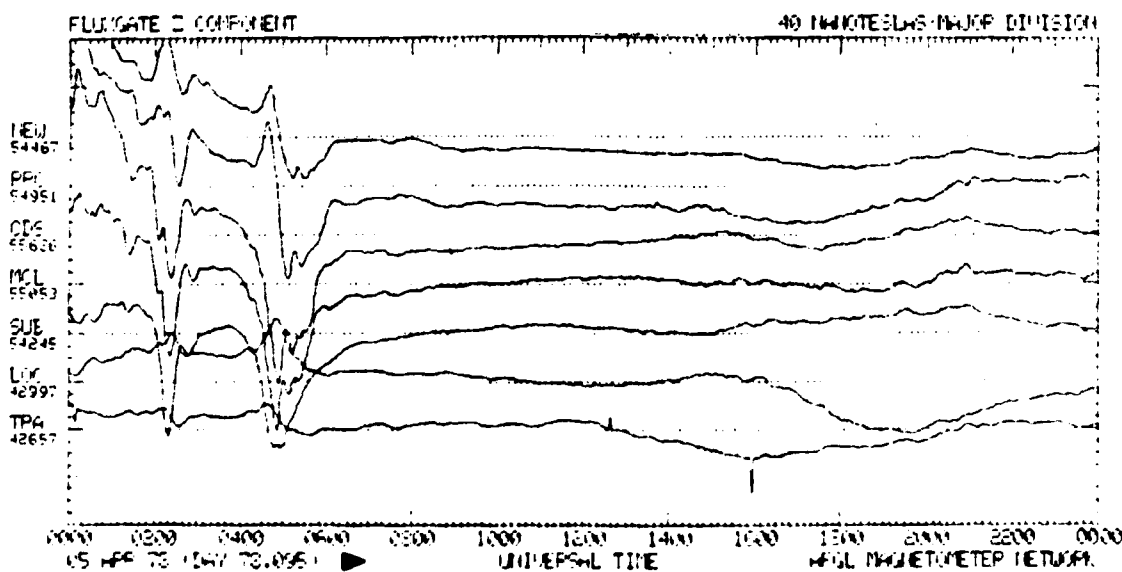
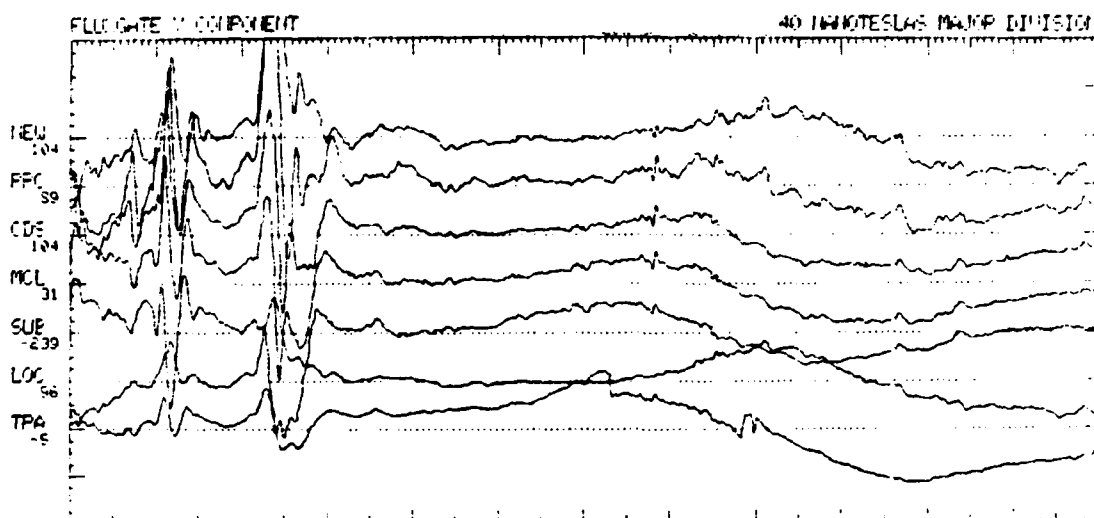
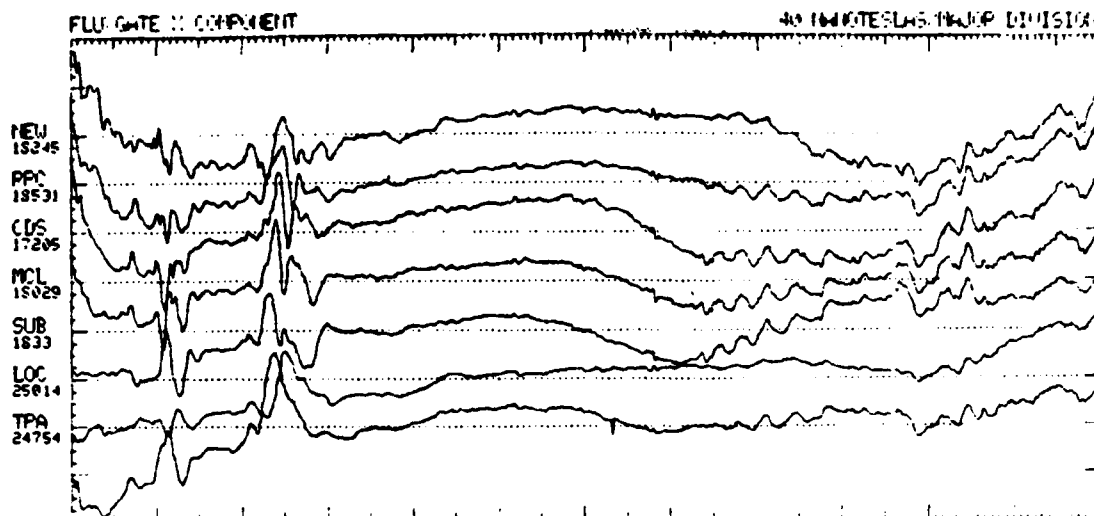
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01 APR 72 (DAY 75.091) UNIVERSAL TIME WGL MAGNETOMETER NETWORK

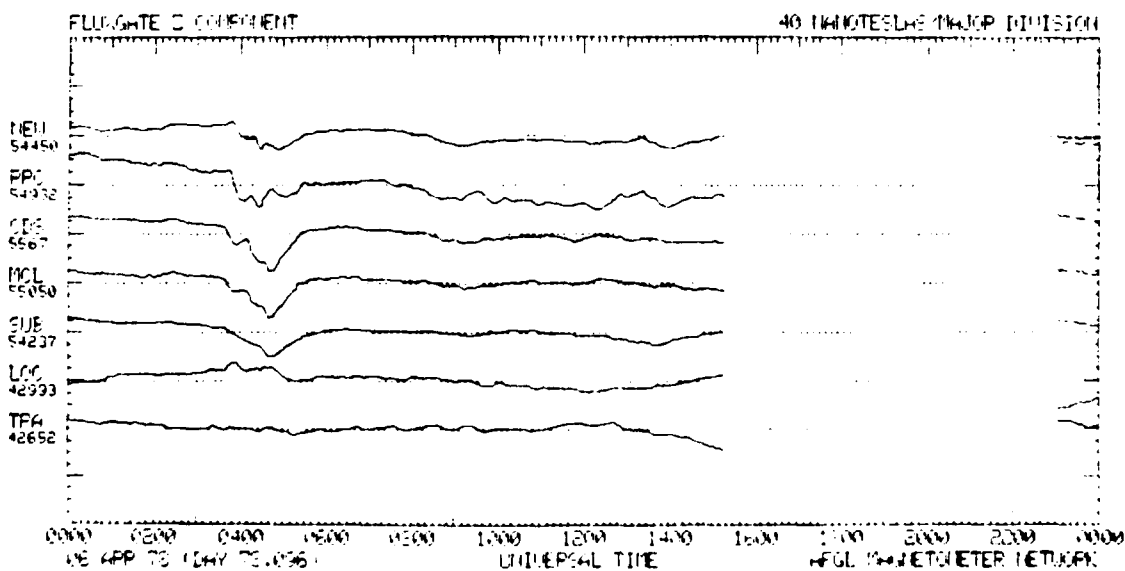
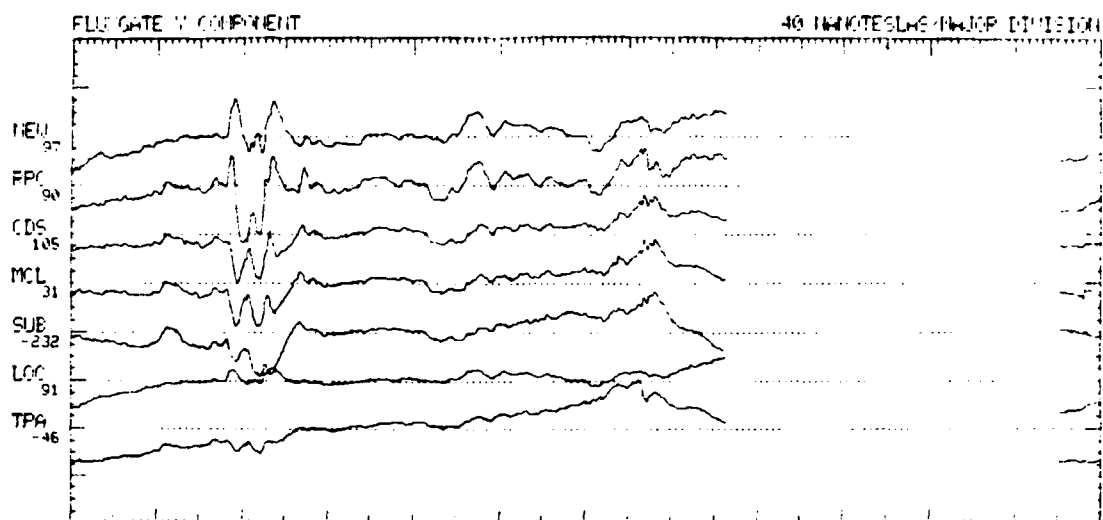
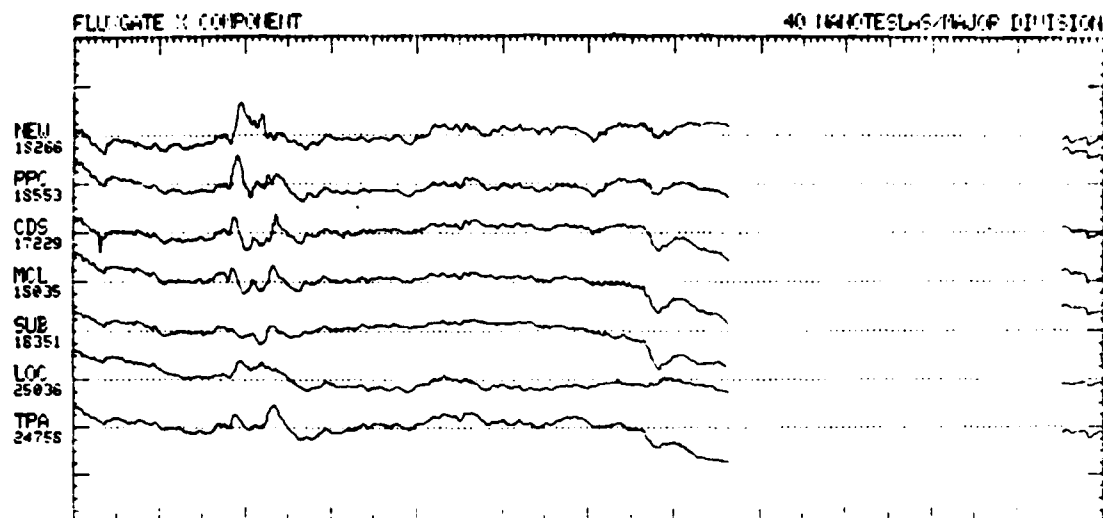


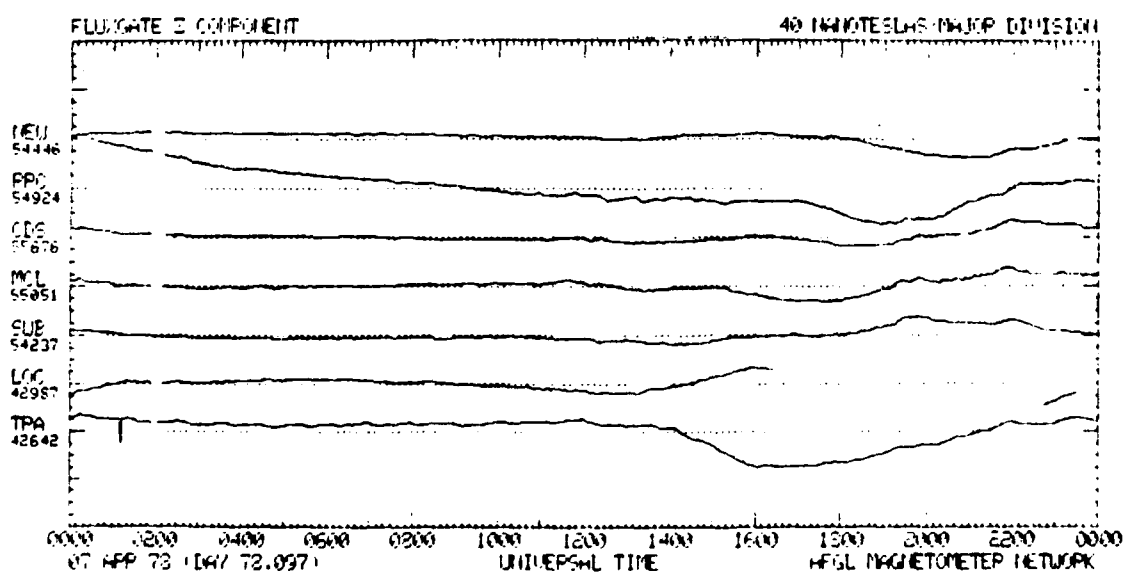
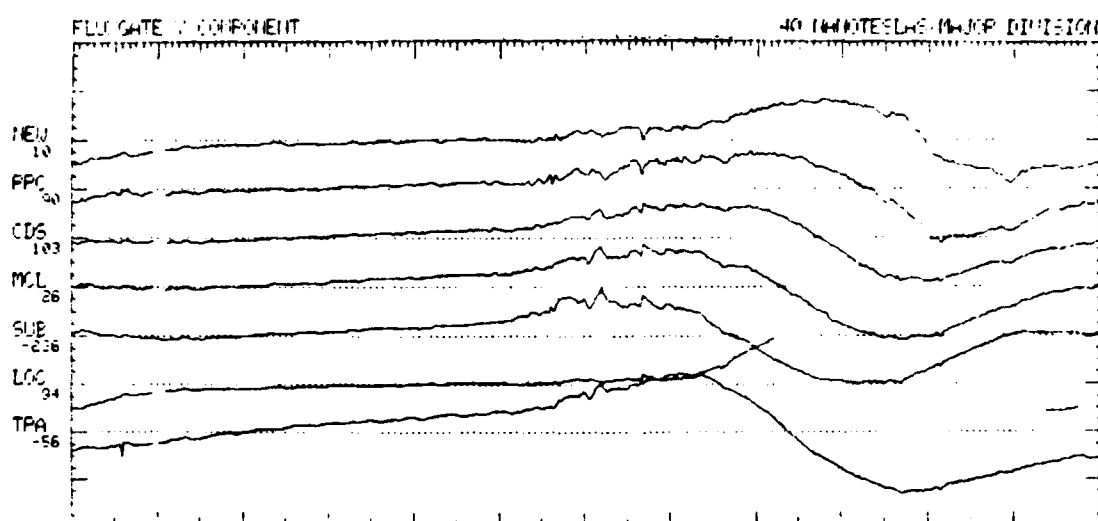
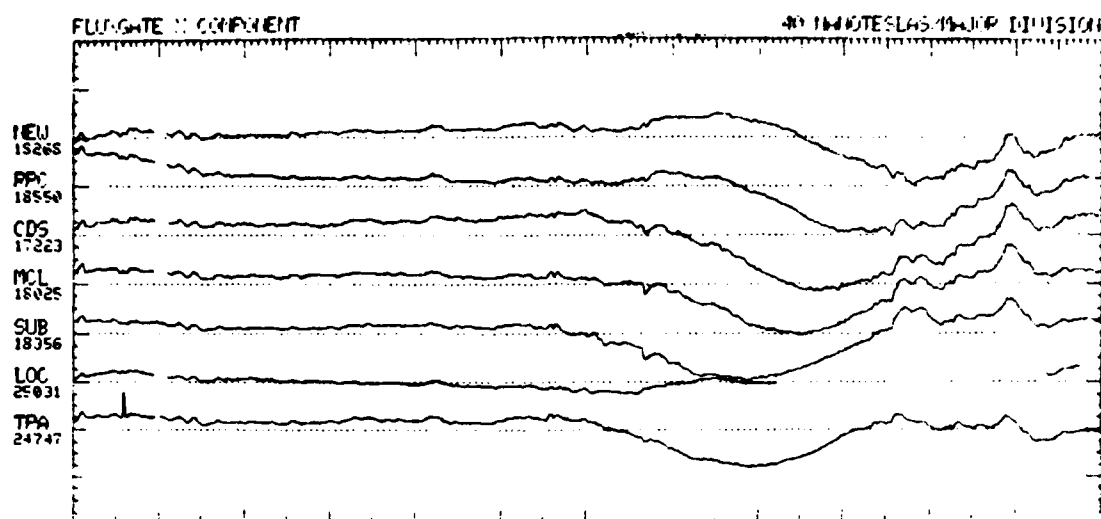


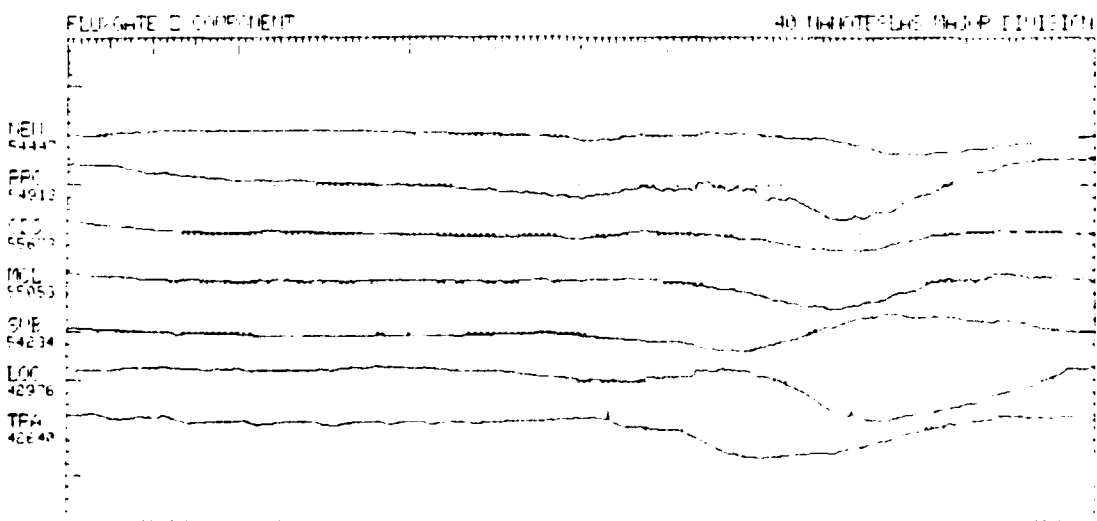
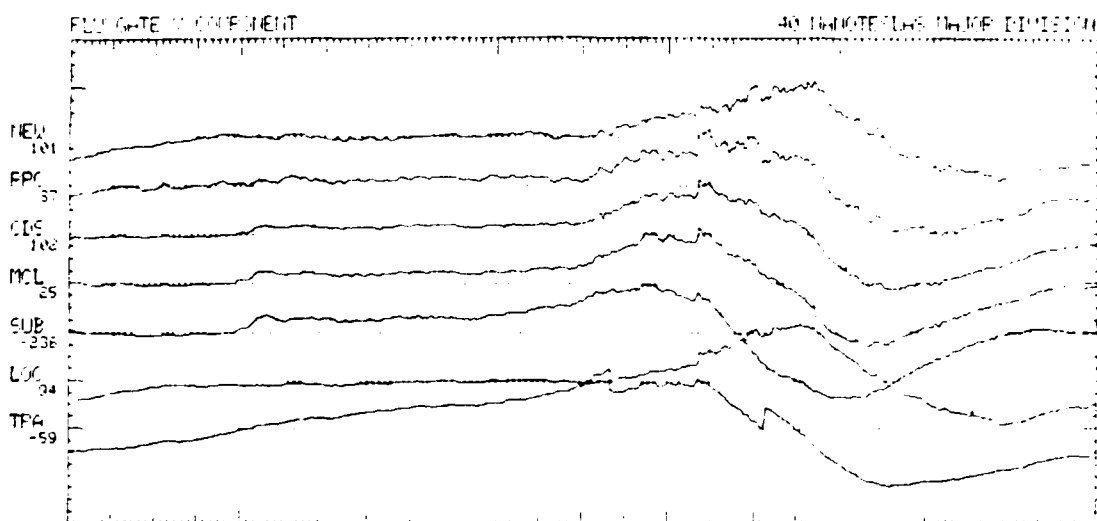
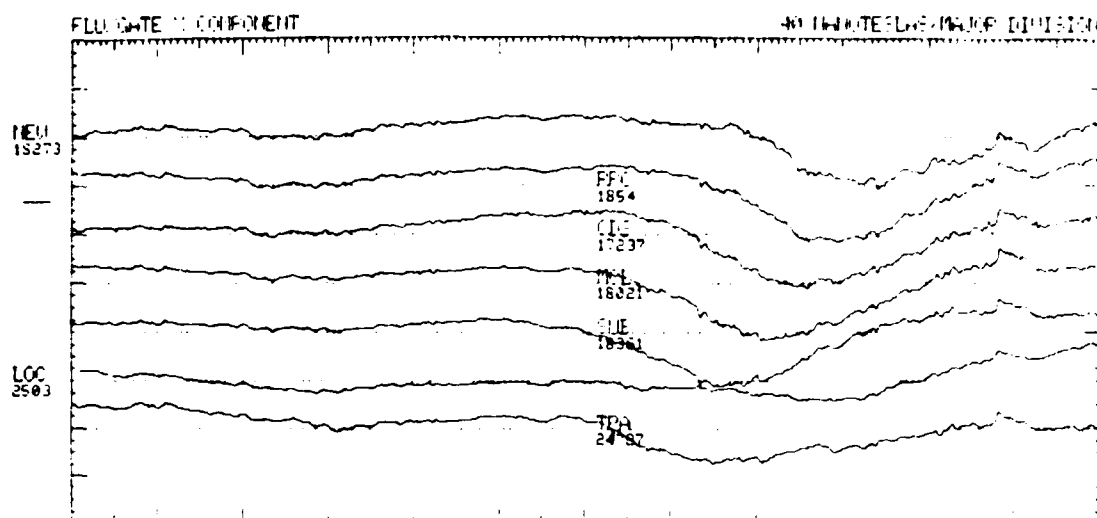


0000 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000
ON OFF TO CHA TO CHA
UNIVERSAL TIME
AFGL BAROMETRIC REFERENCE

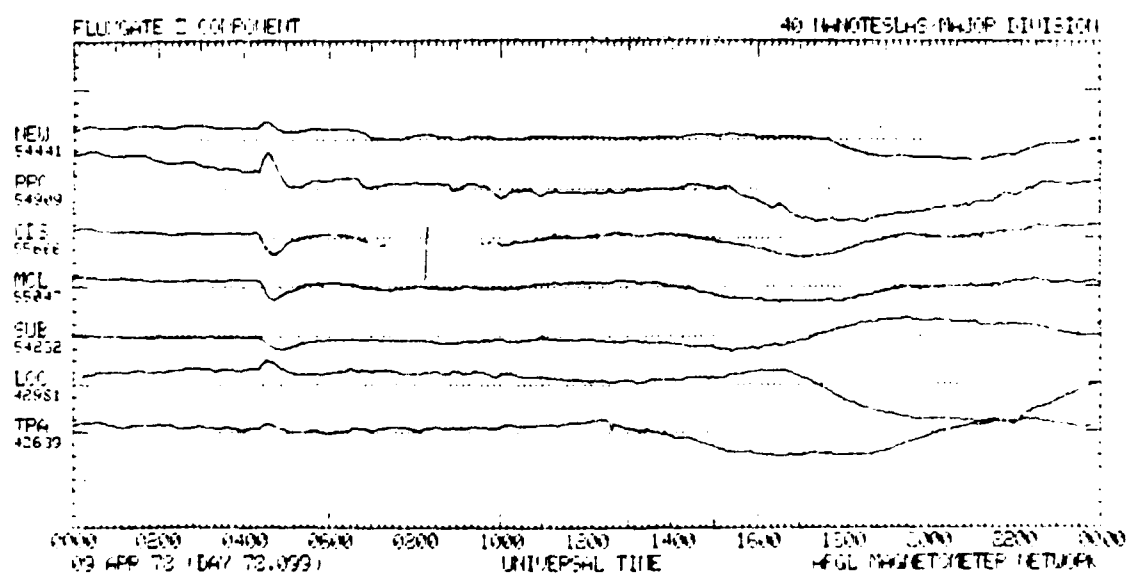
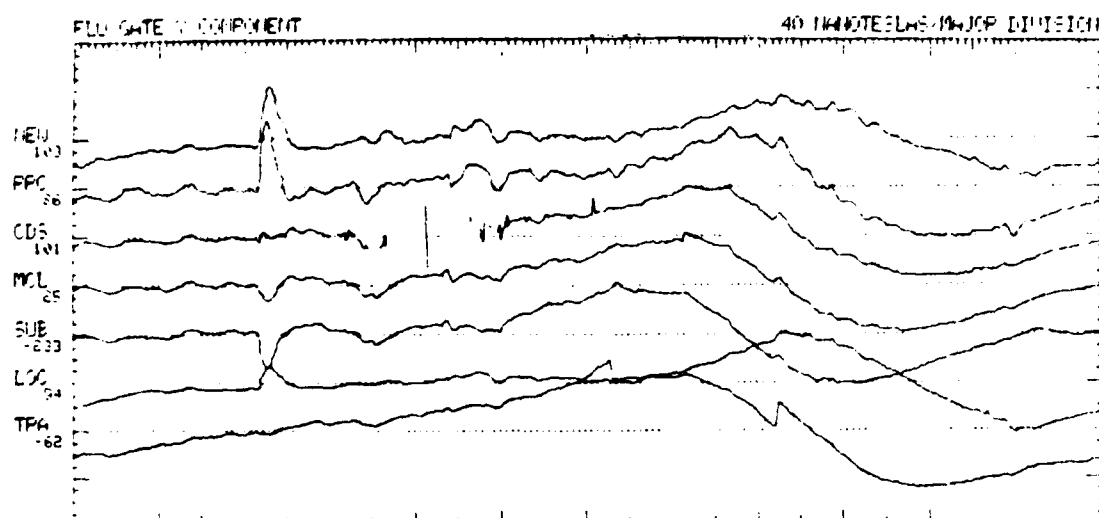
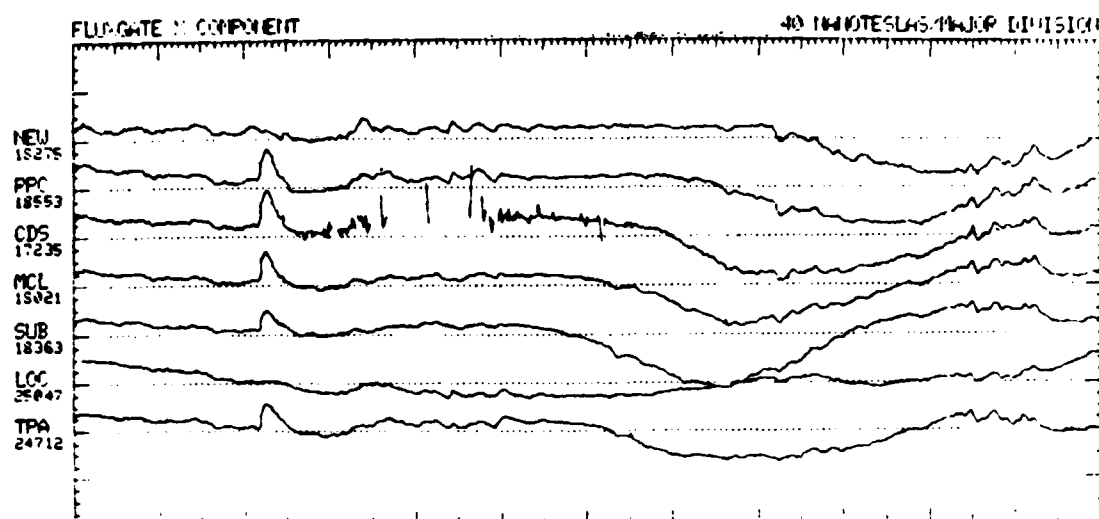


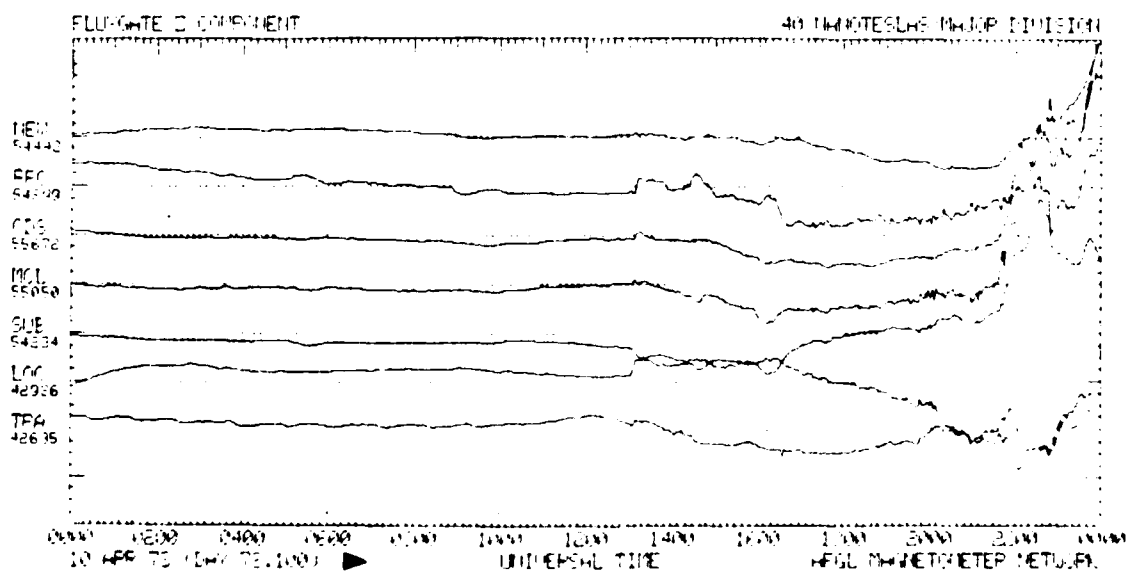
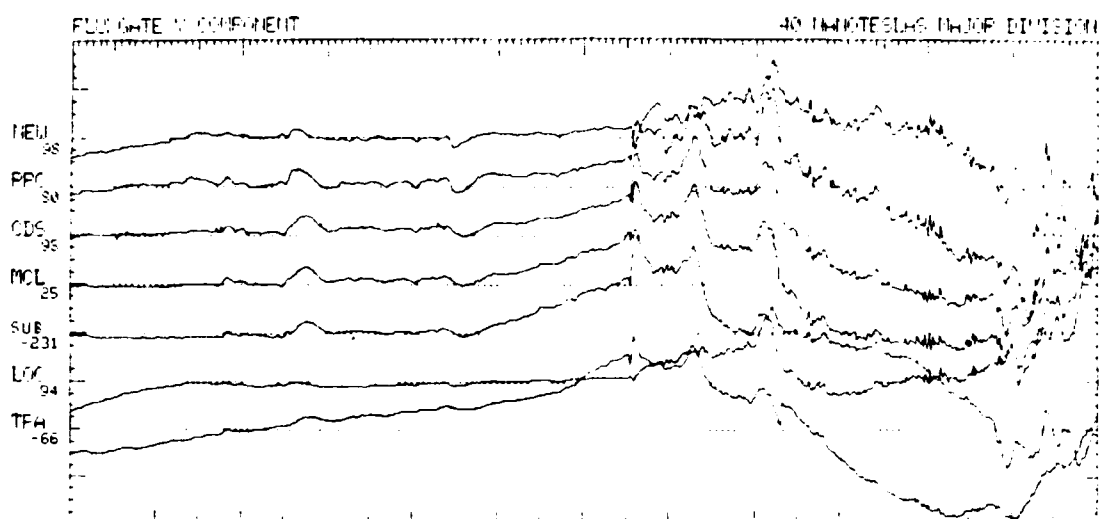
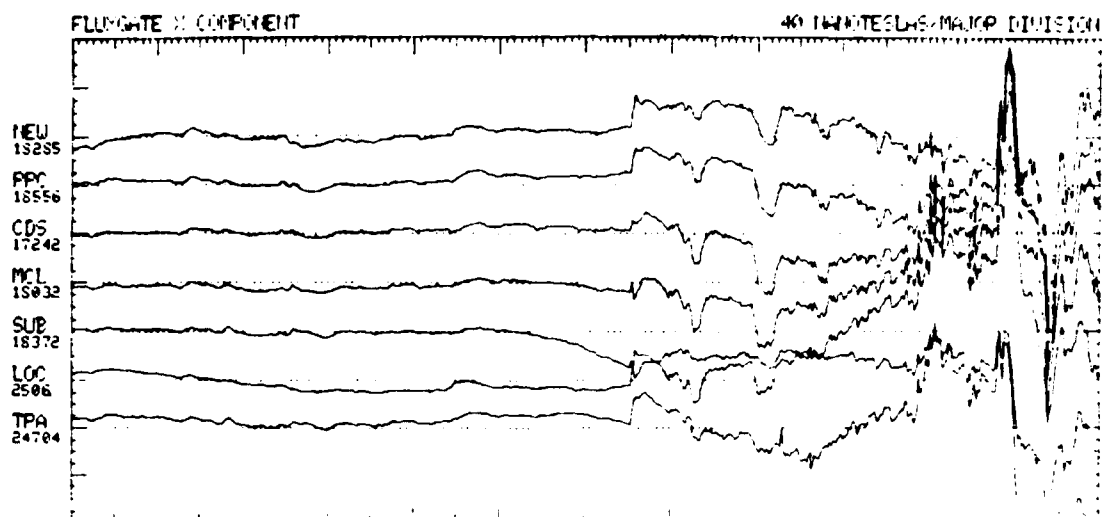


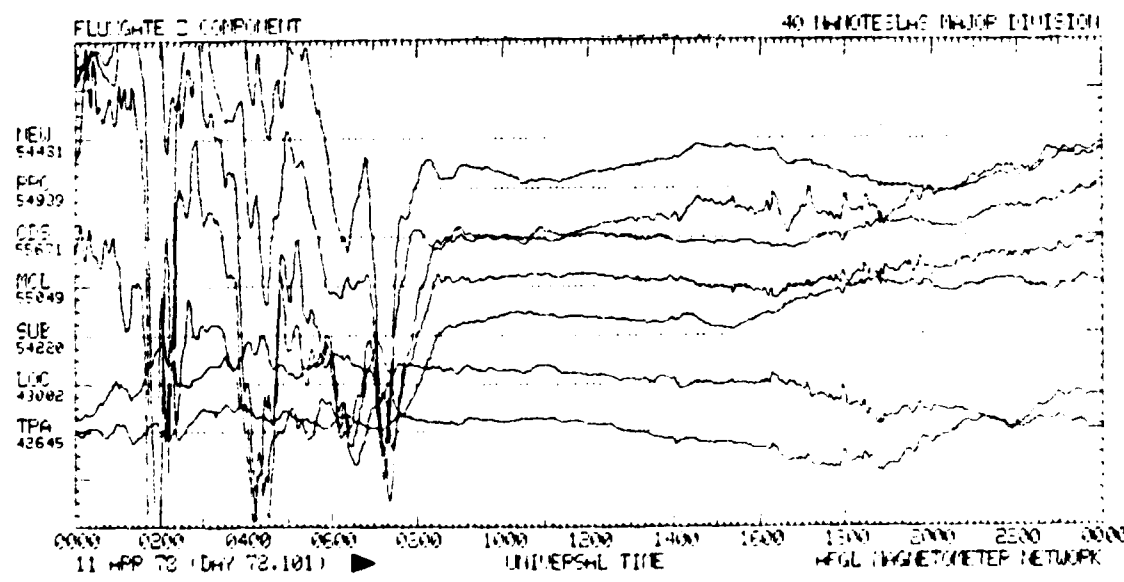
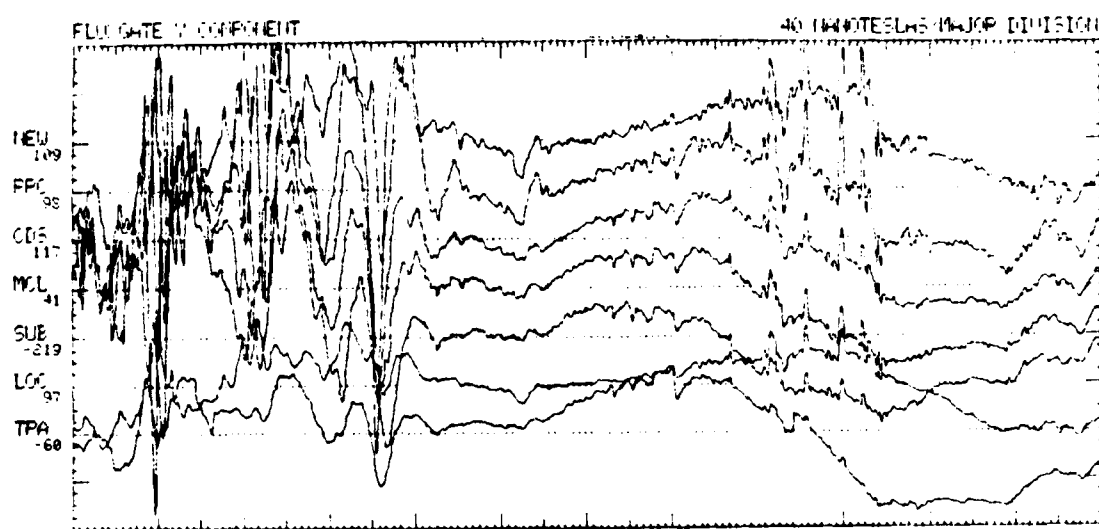
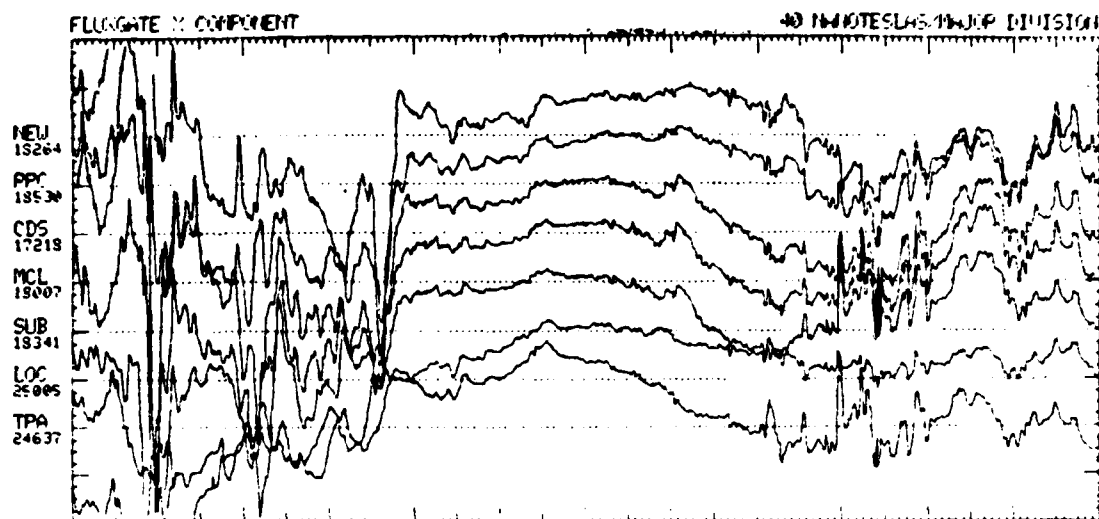


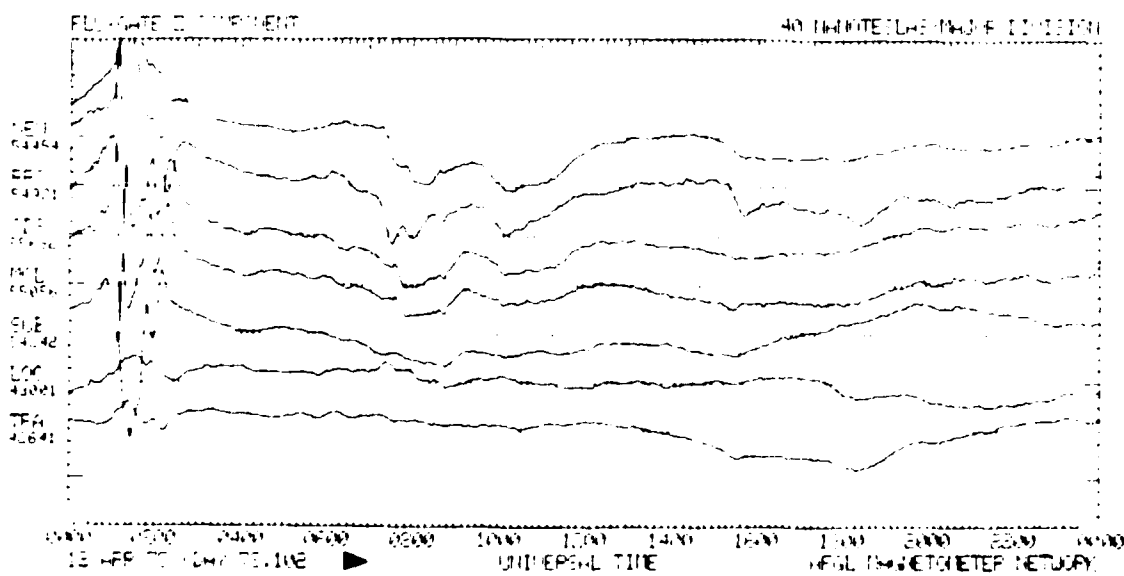
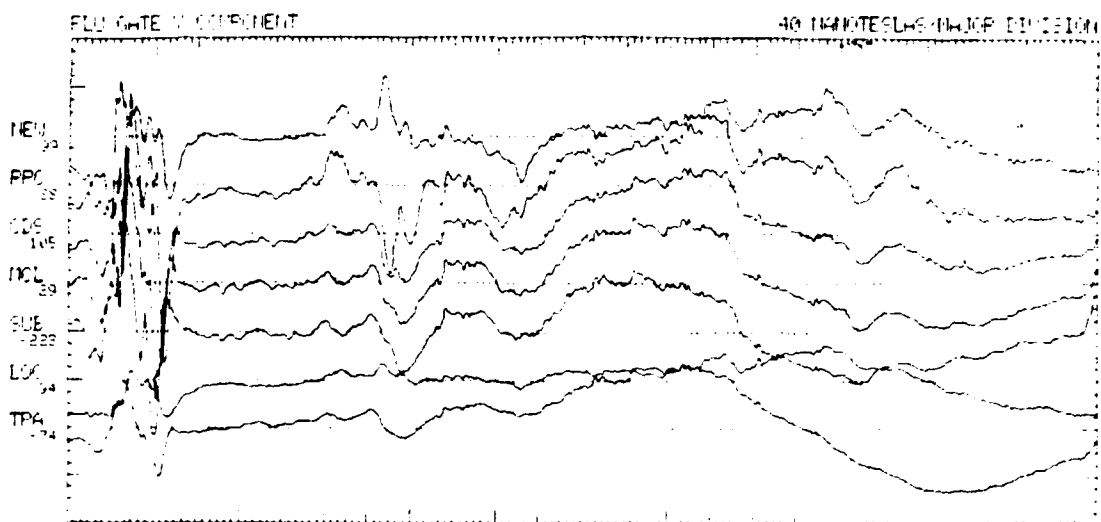
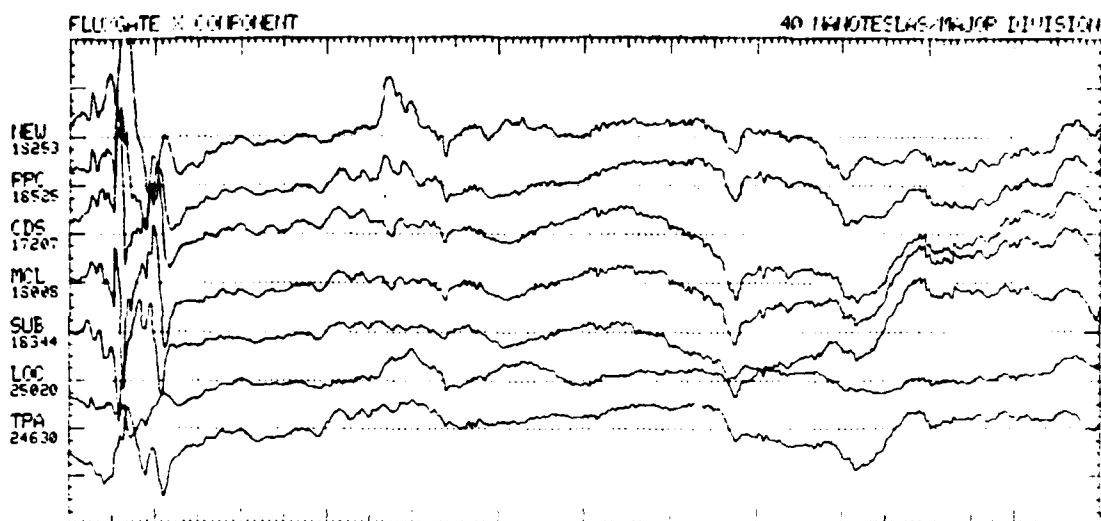


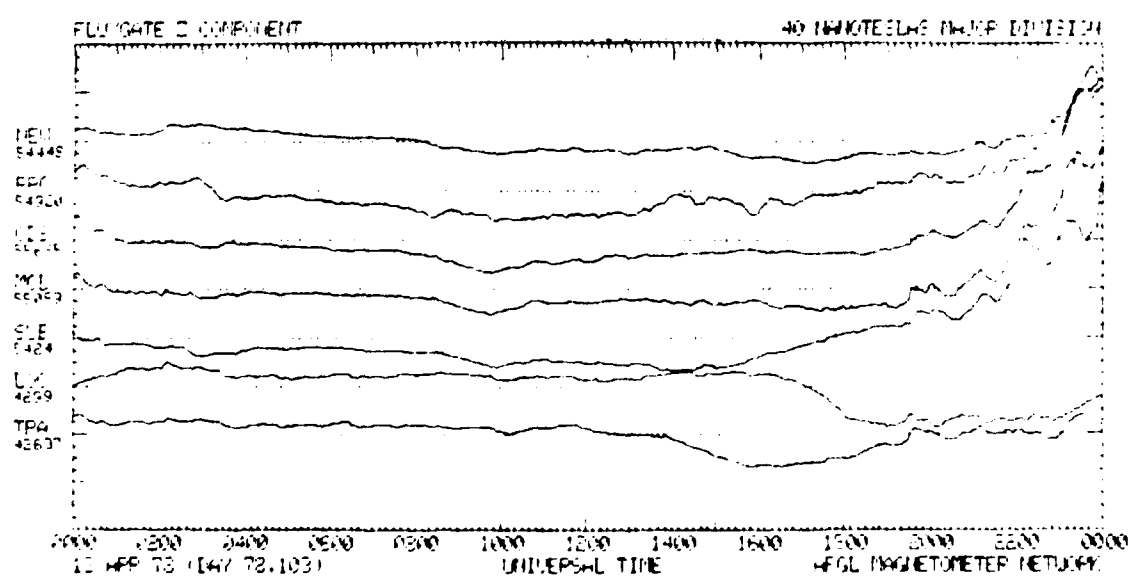
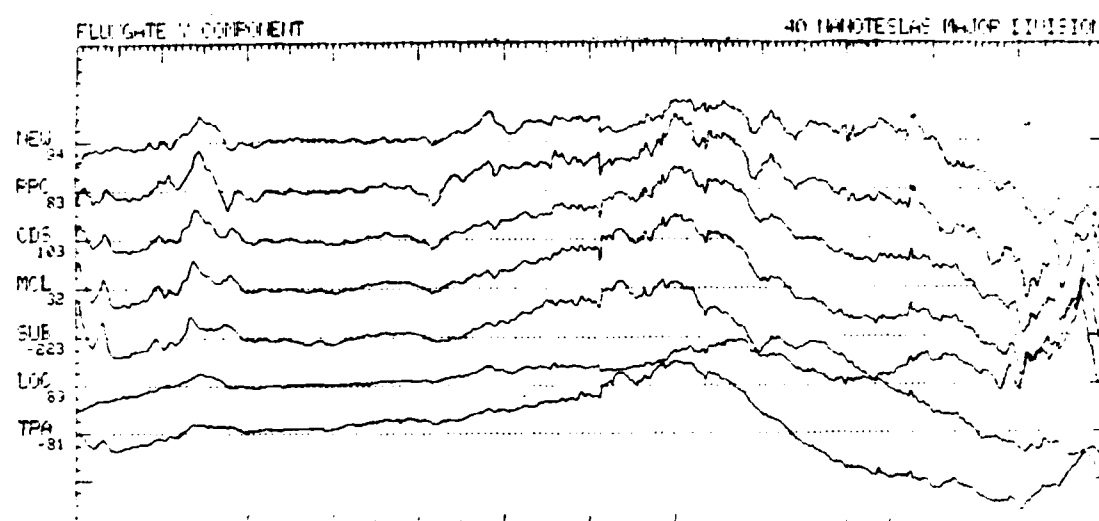
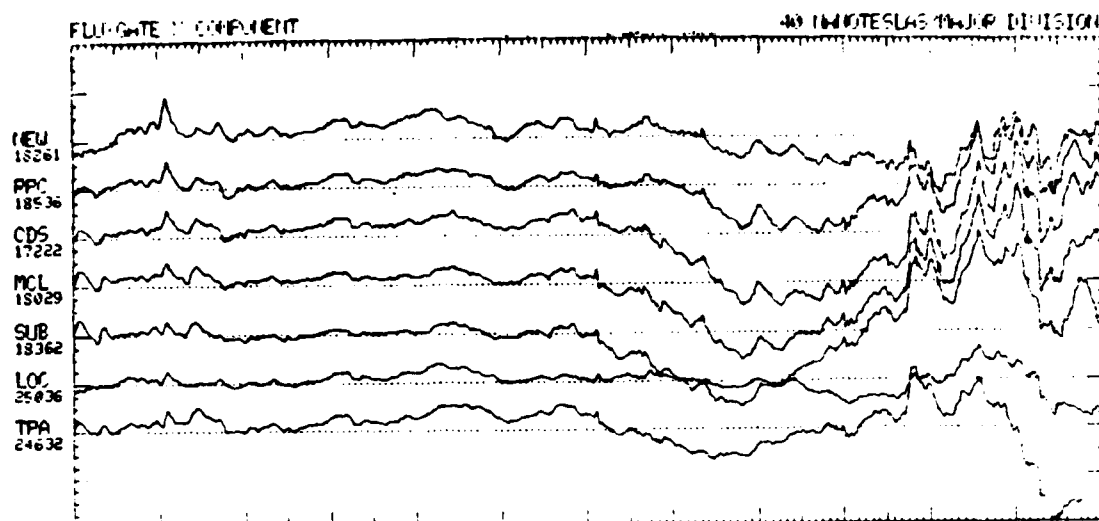
UNIVERSAL TIME FULL SCALE METERS RETURN

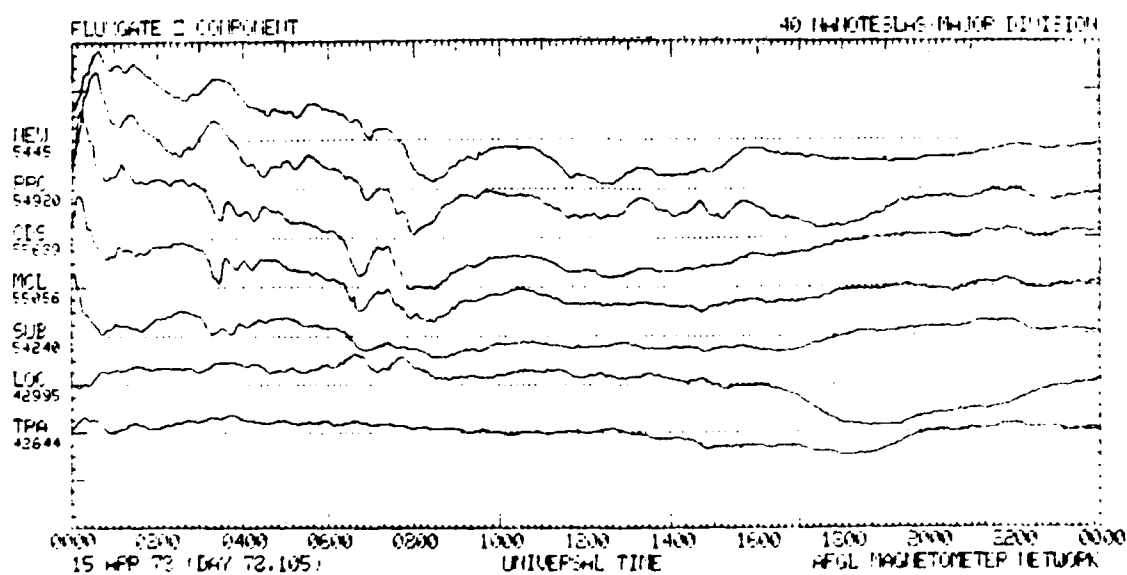
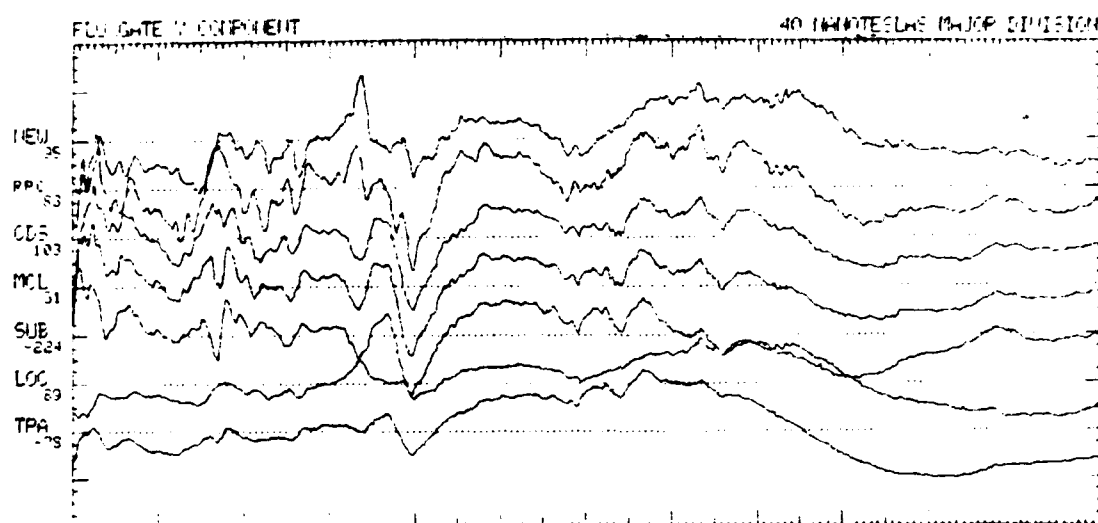
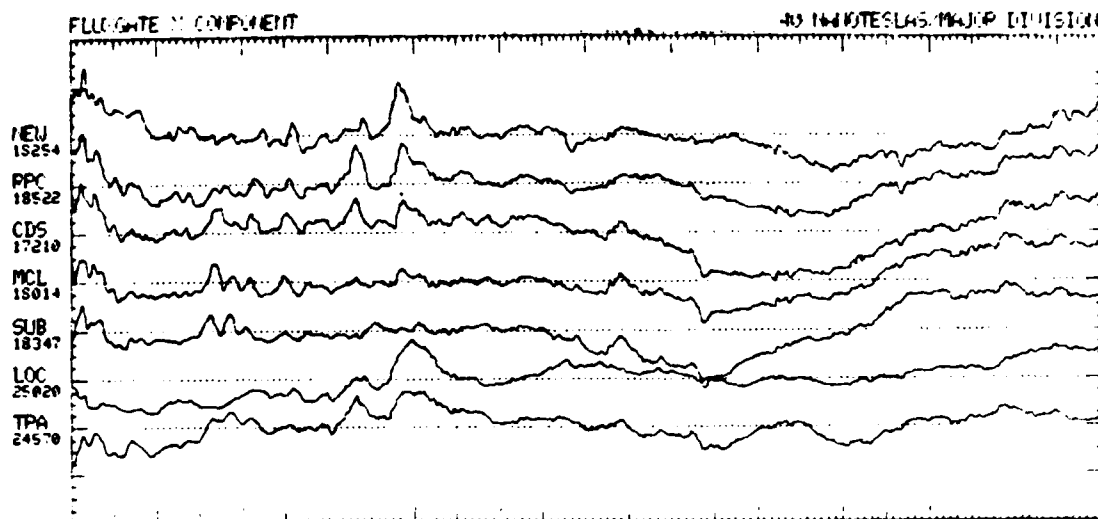


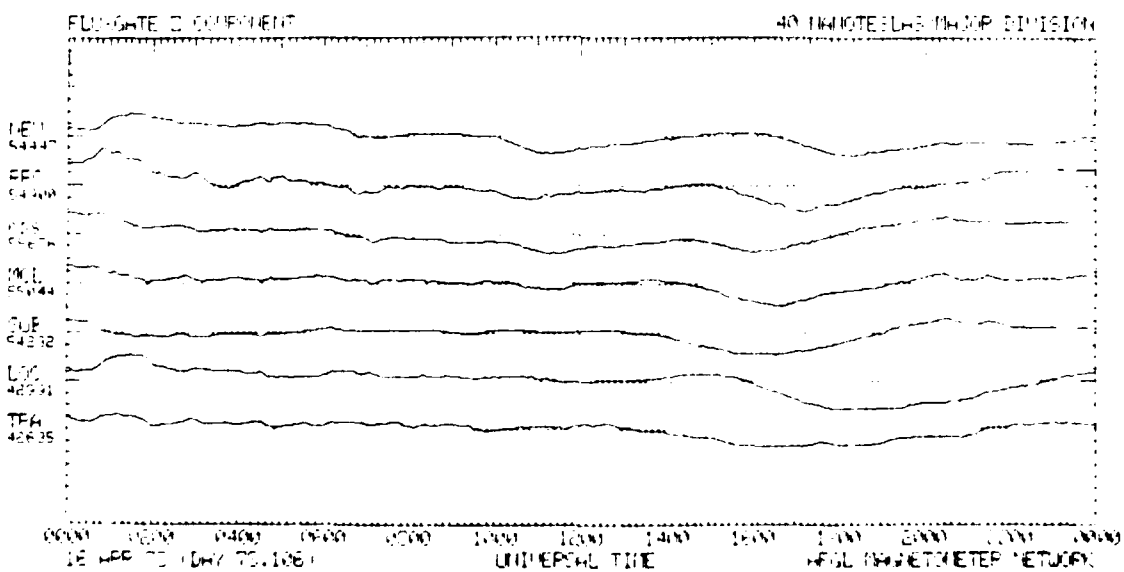
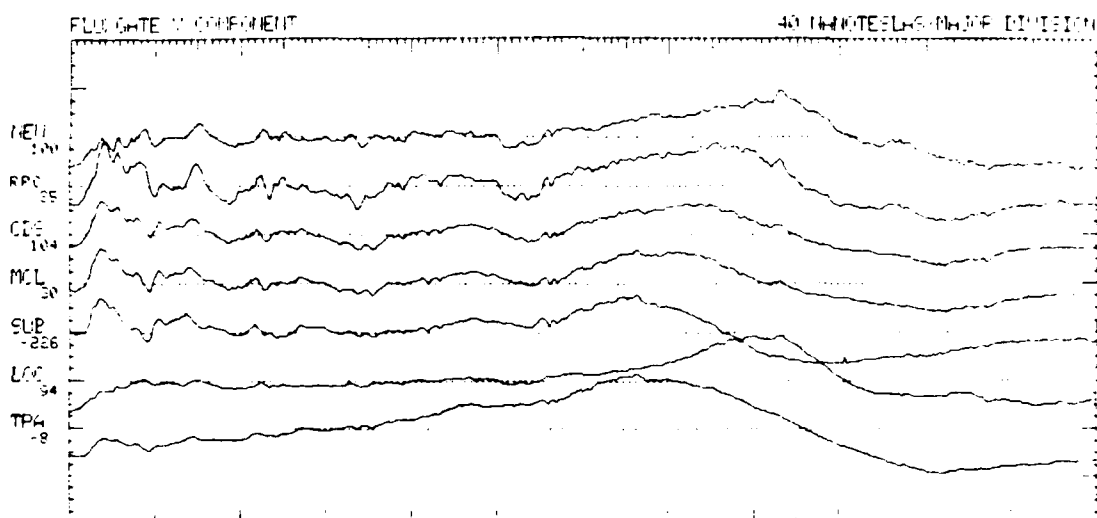
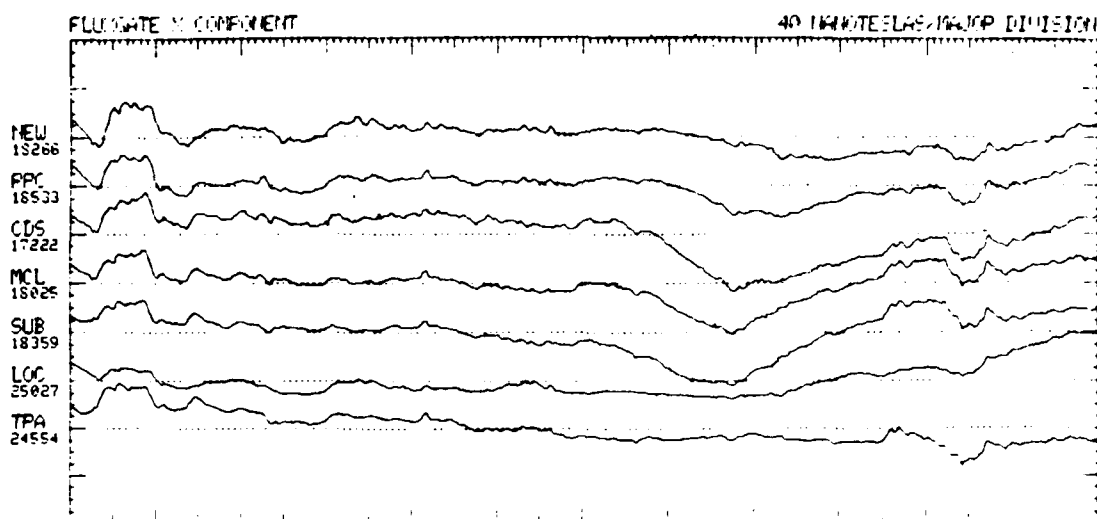


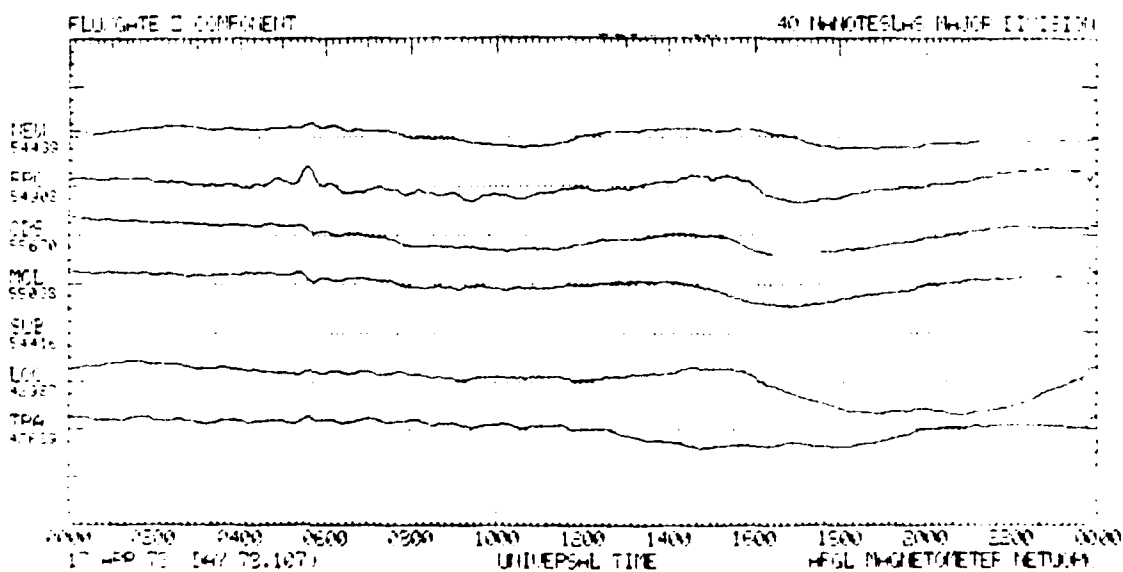
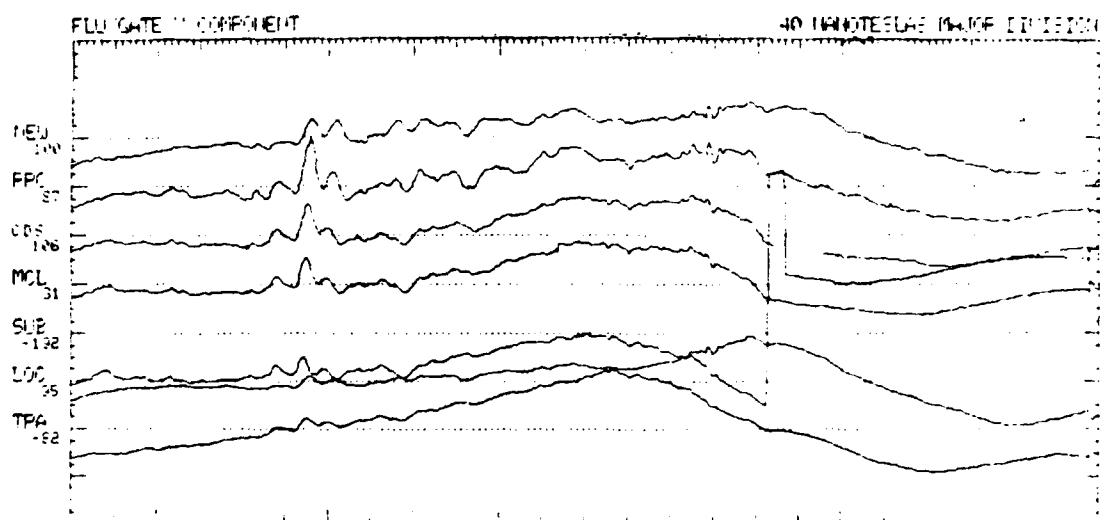
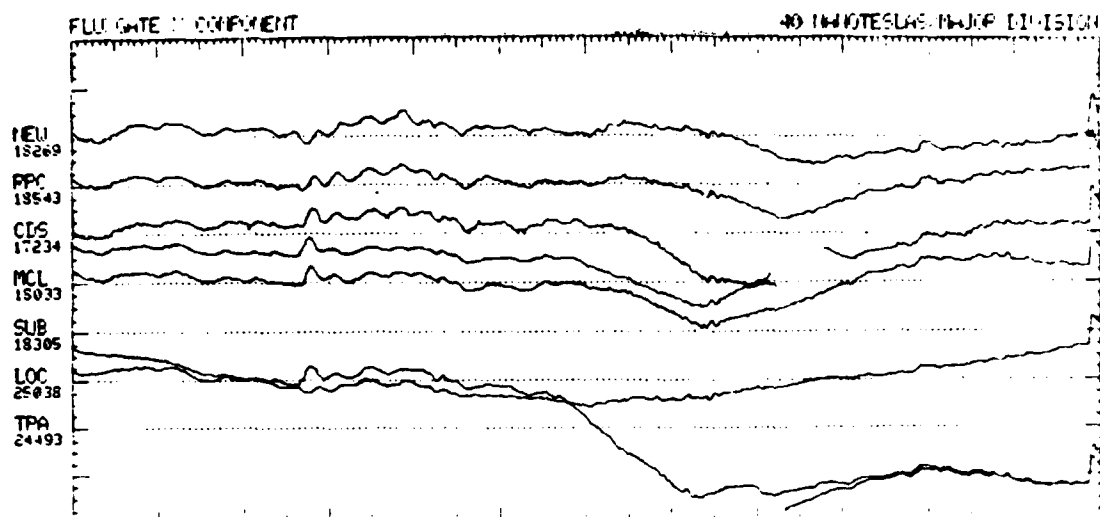


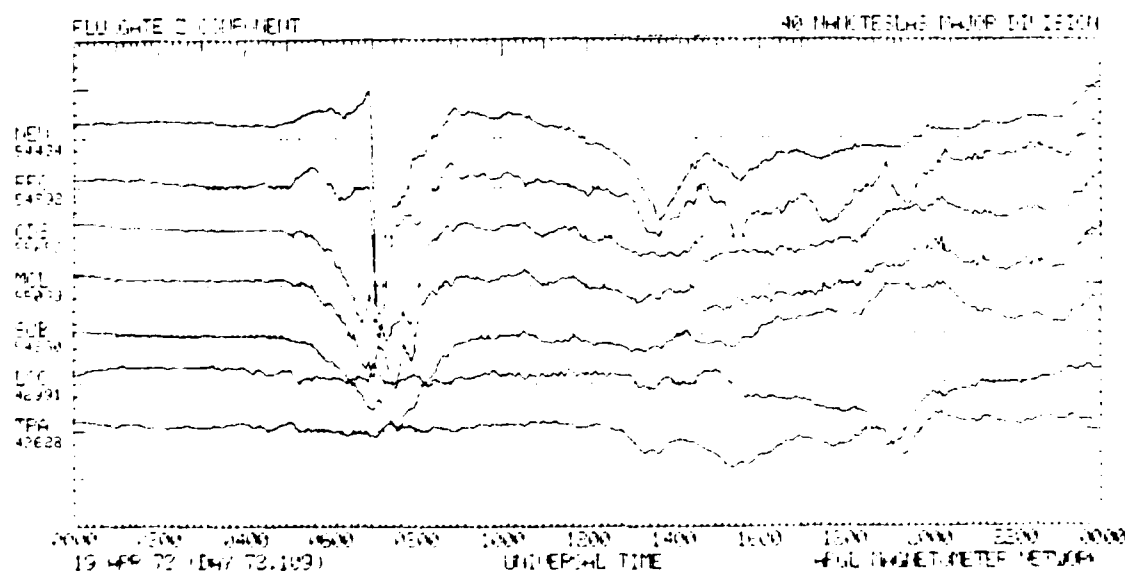
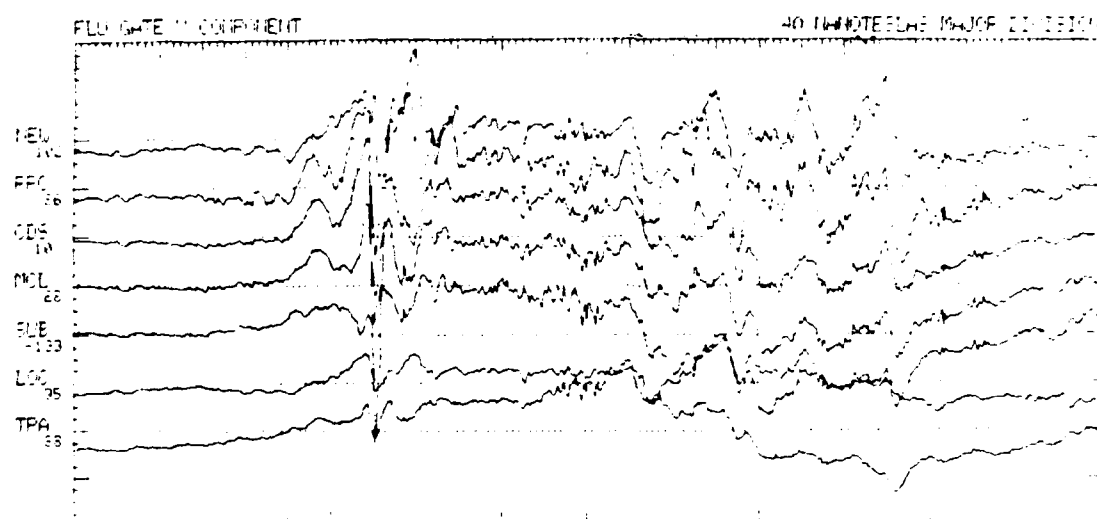
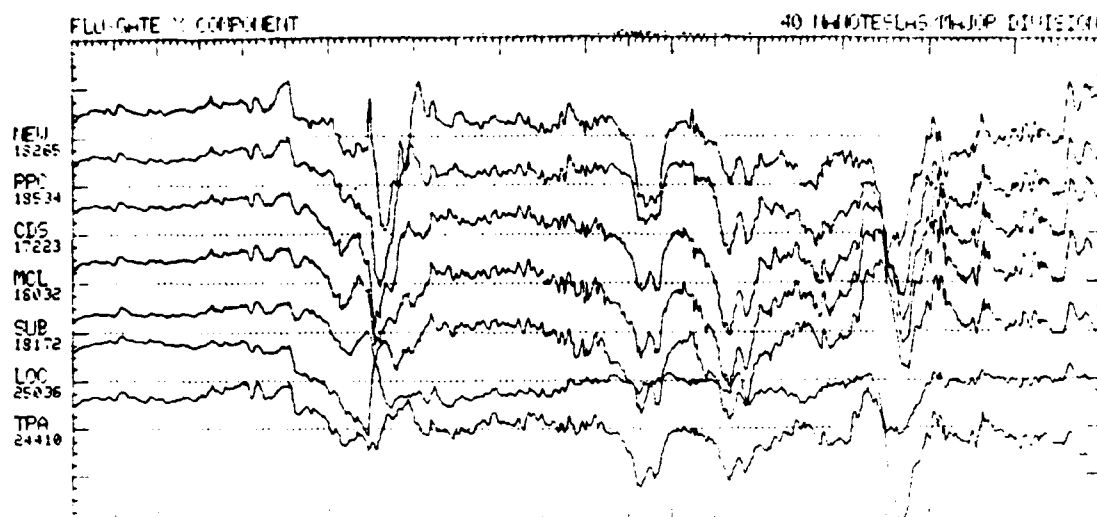








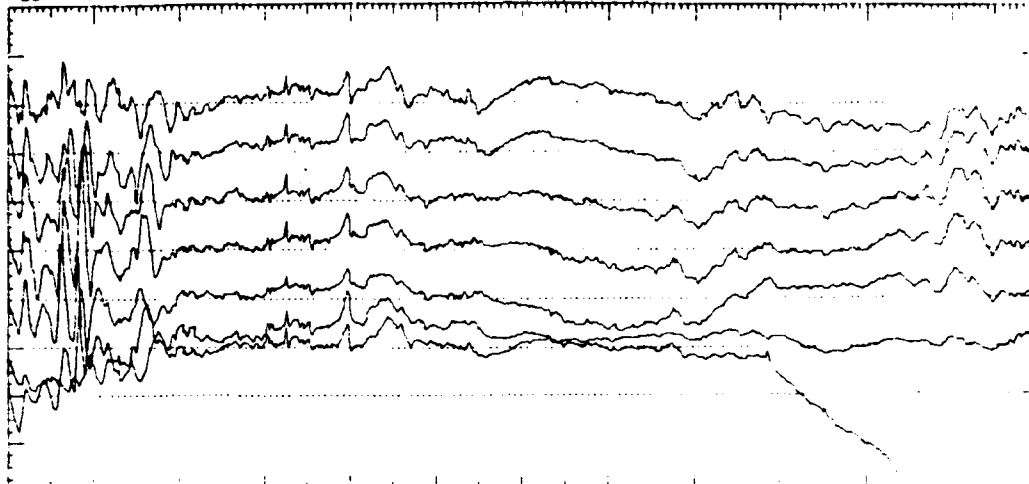




FLIGHT 1 COMPONENT

40 INCHES/CM DIVISION

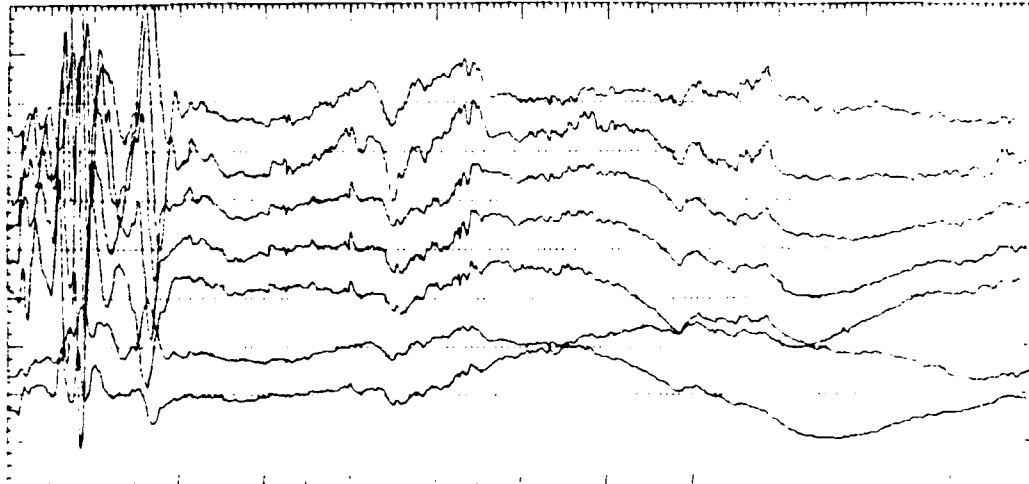
NEU
13267
PPC
15525
CDS
17225
MCL
18030
SUB
18165
LOC
25028
TPA
24340



FLIGHT 2 COMPONENT

40 INCHES/CM DIVISION

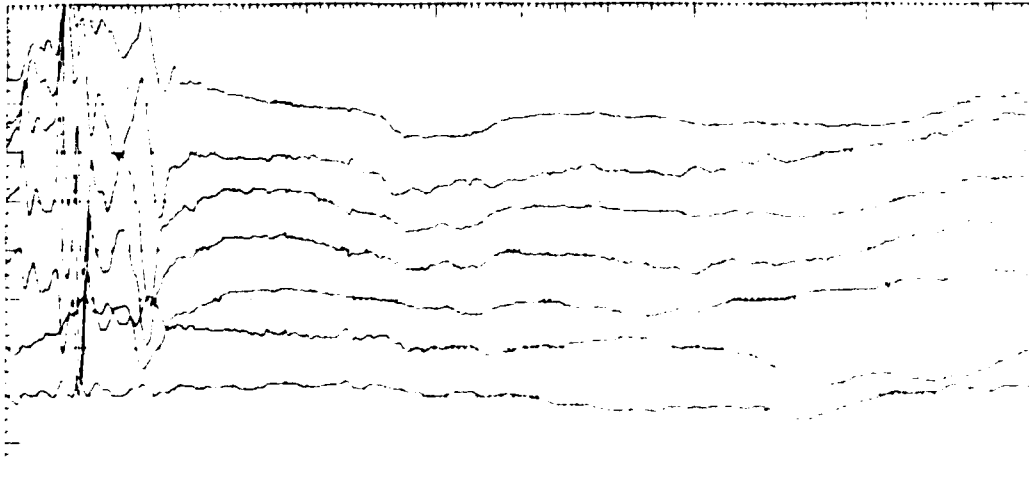
NEU
105
PPC
92
CDS
110
MCL
33
SUB
128
LOC
97
TPA
79



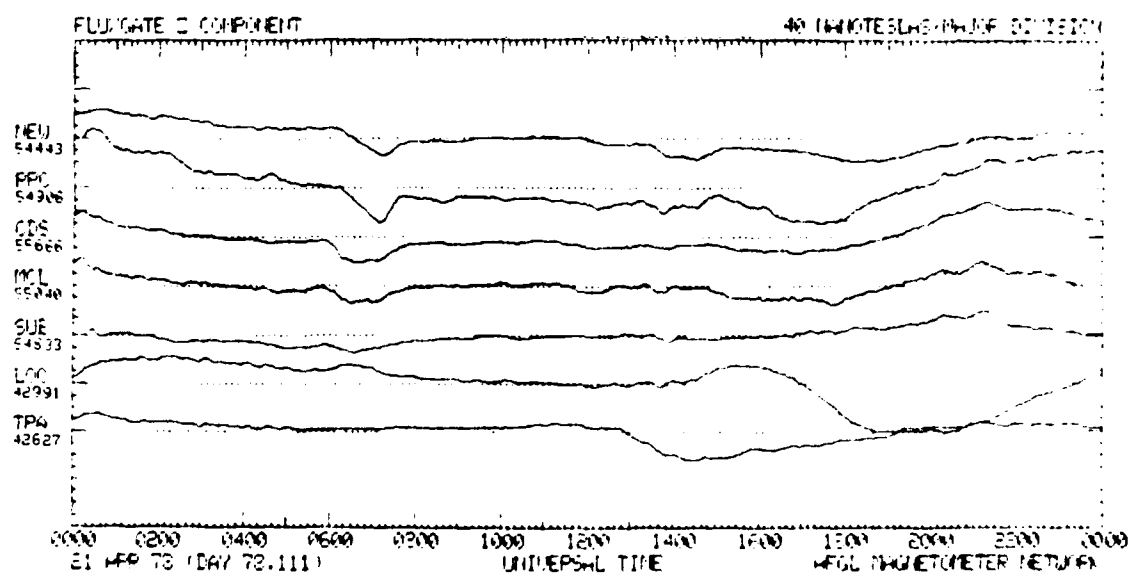
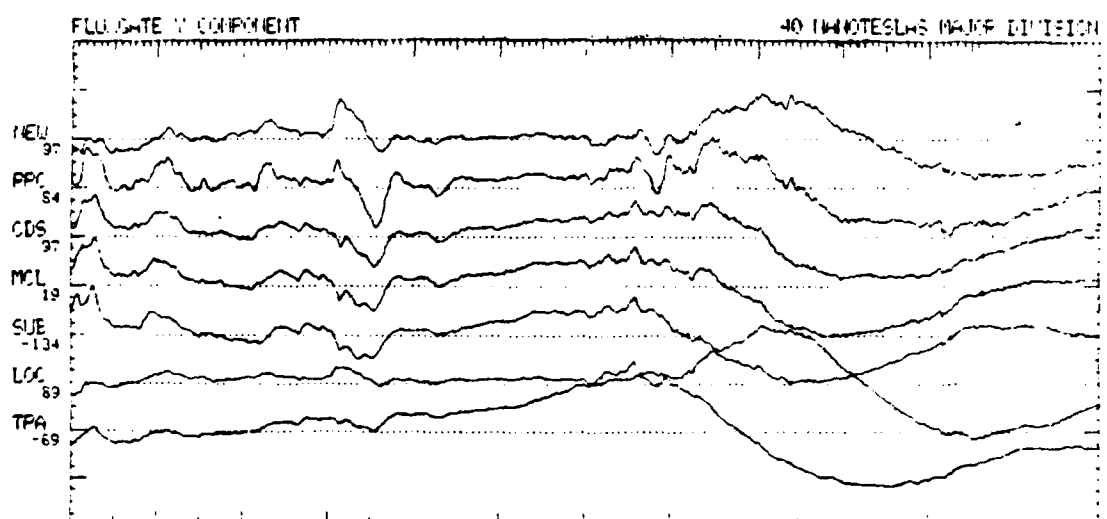
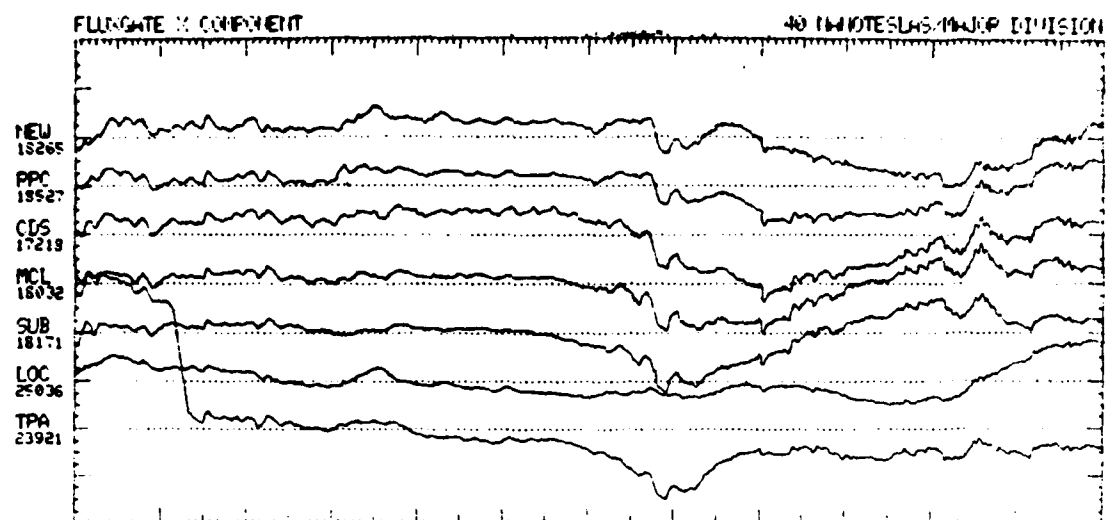
FLIGHT 3 COMPONENT

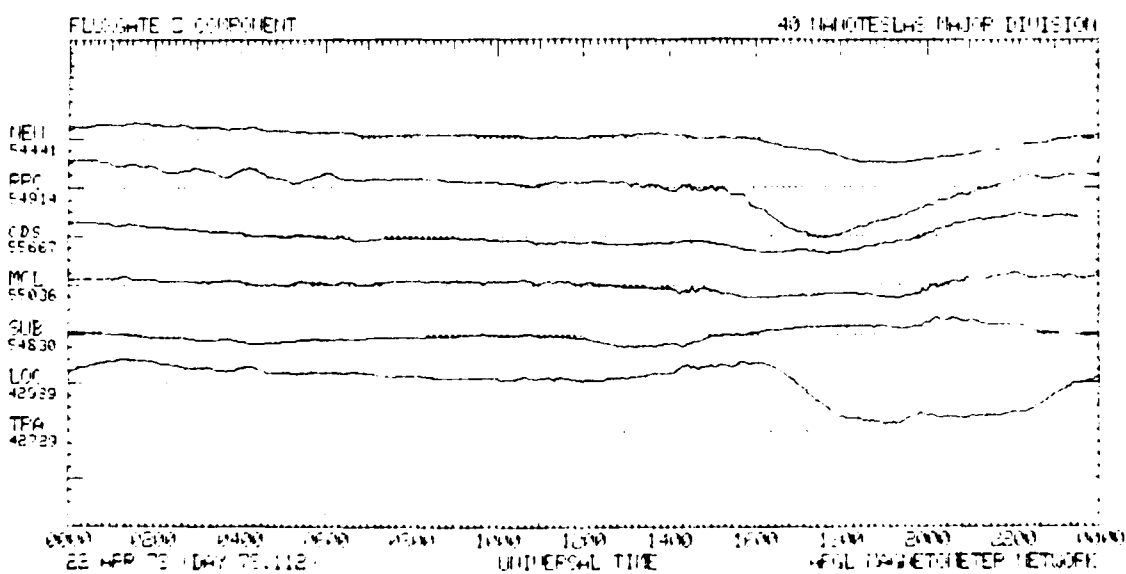
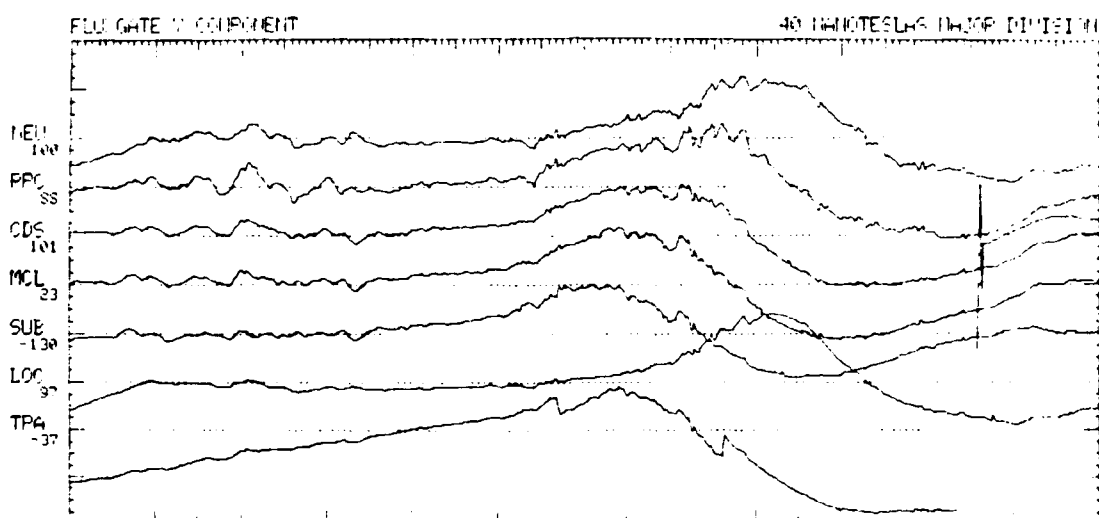
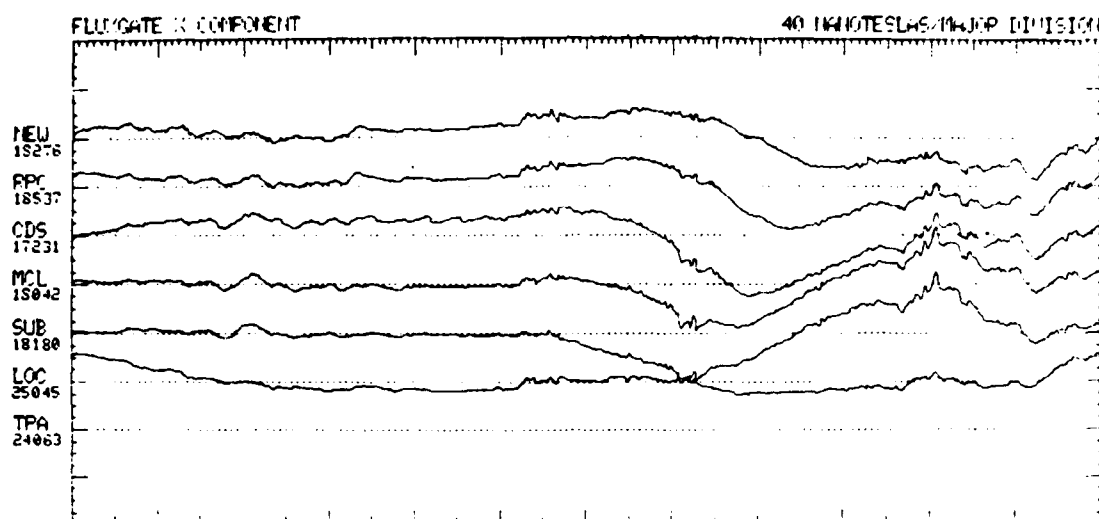
40 INCHES/CM DIVISION

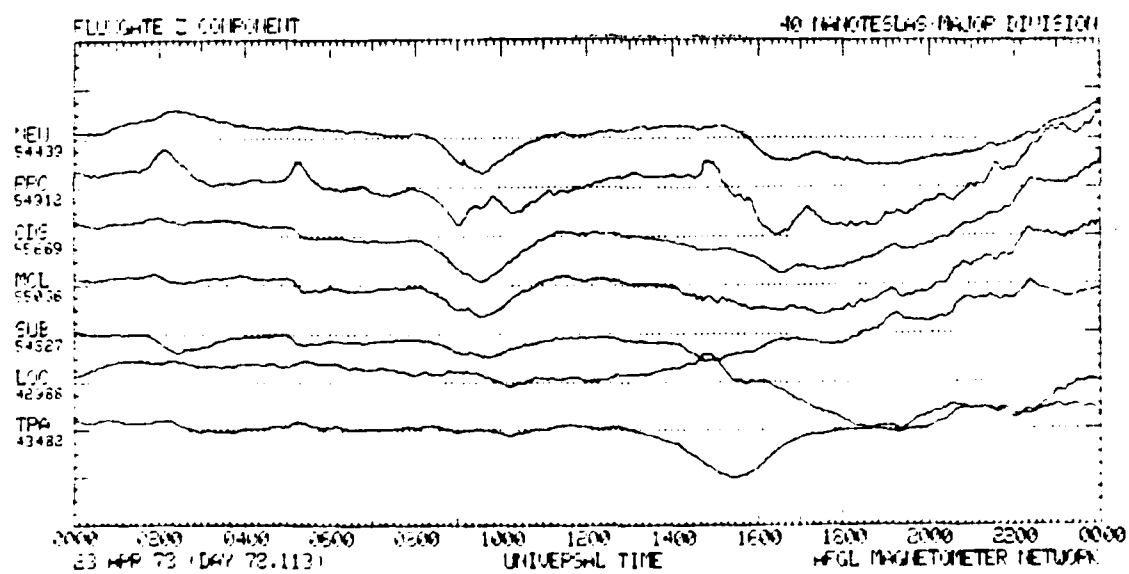
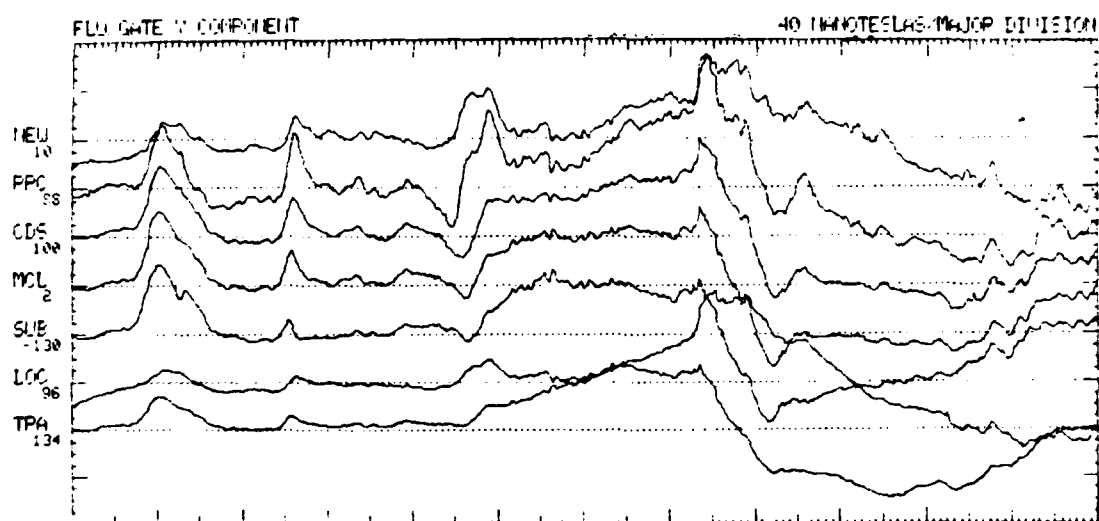
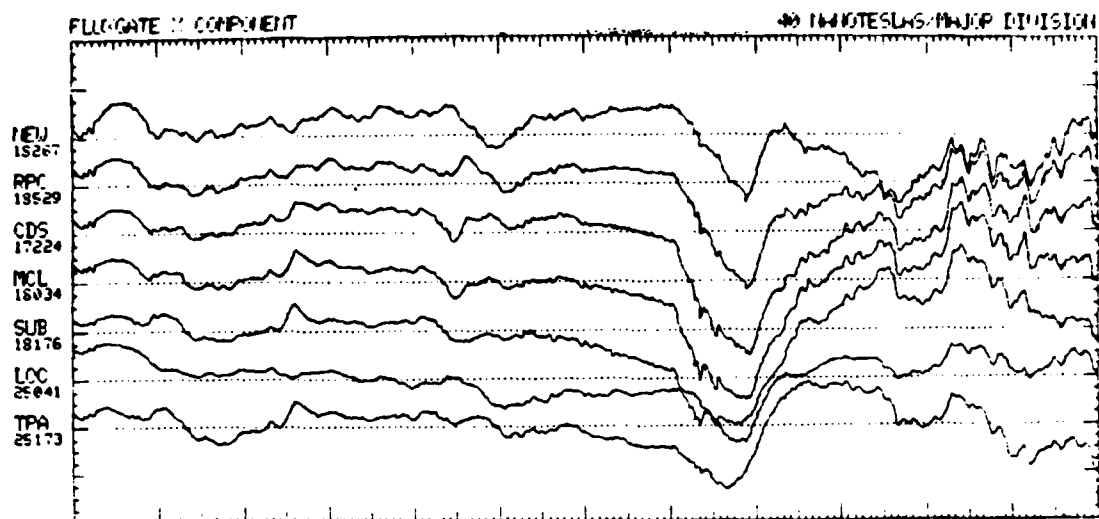
NEU
54459
PPC
54012
CDS
55672
MCL
55744
SUB
54832
LOC
42297
TPA
46631

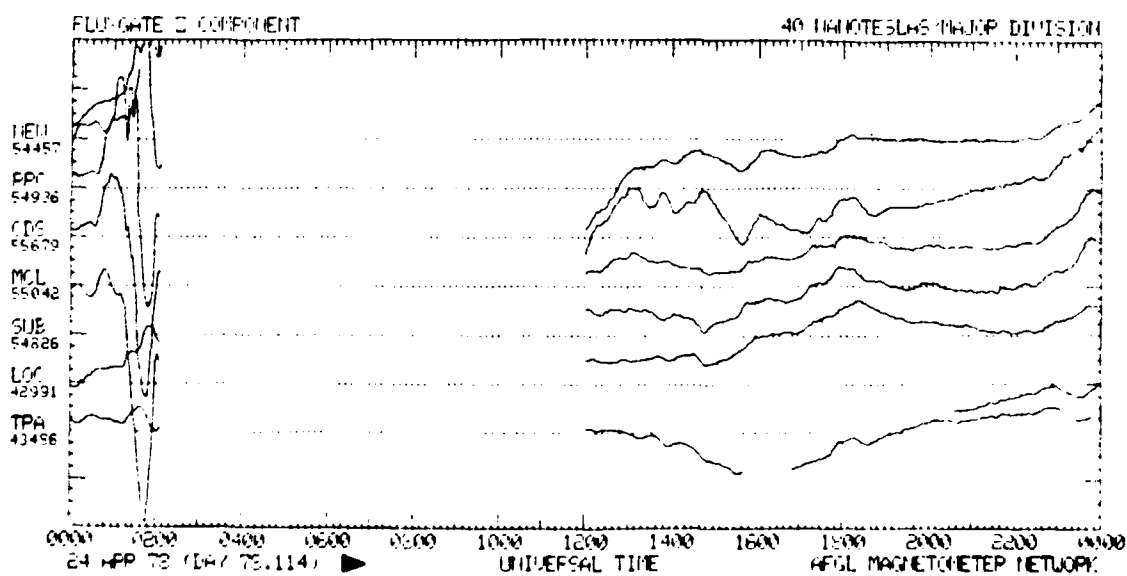
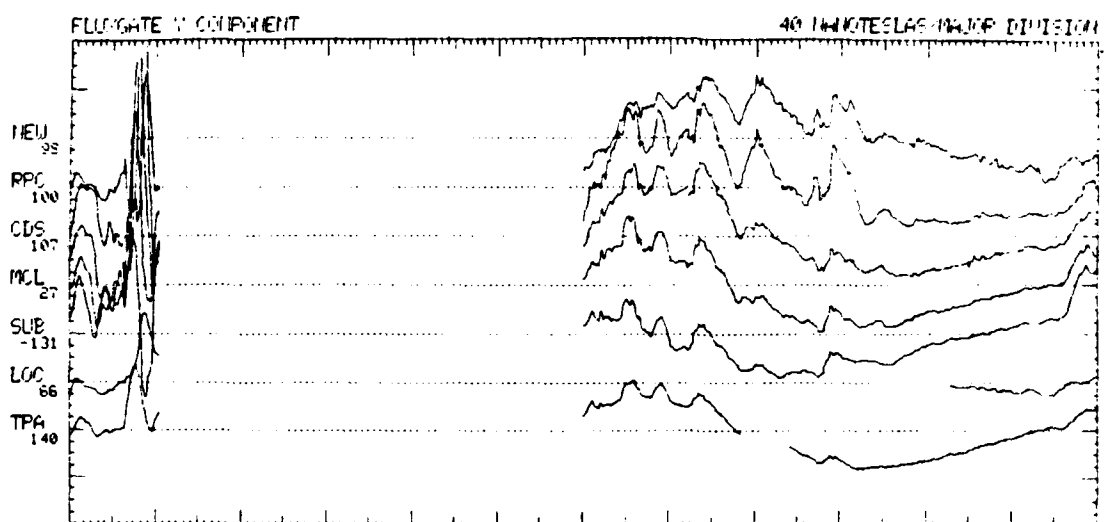
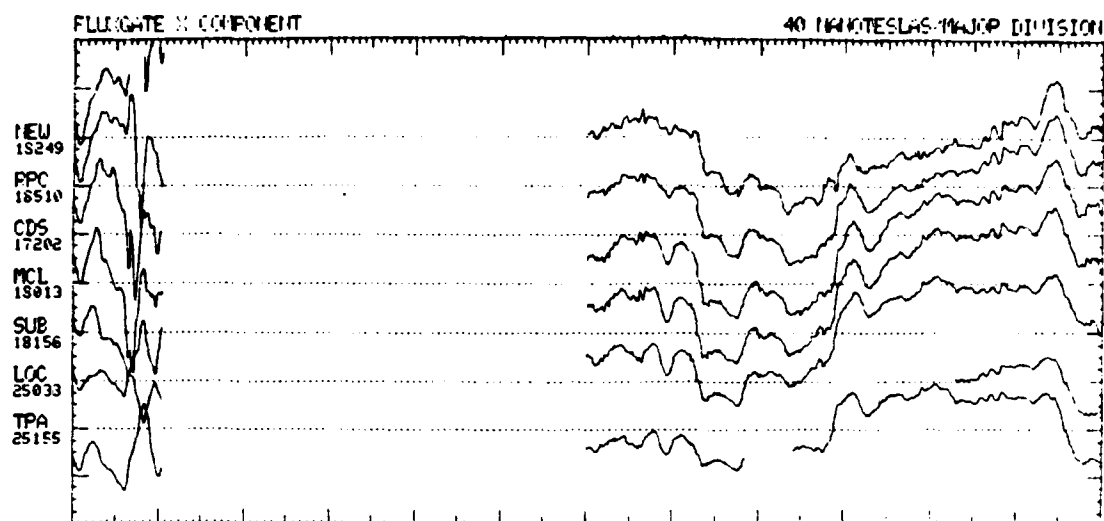


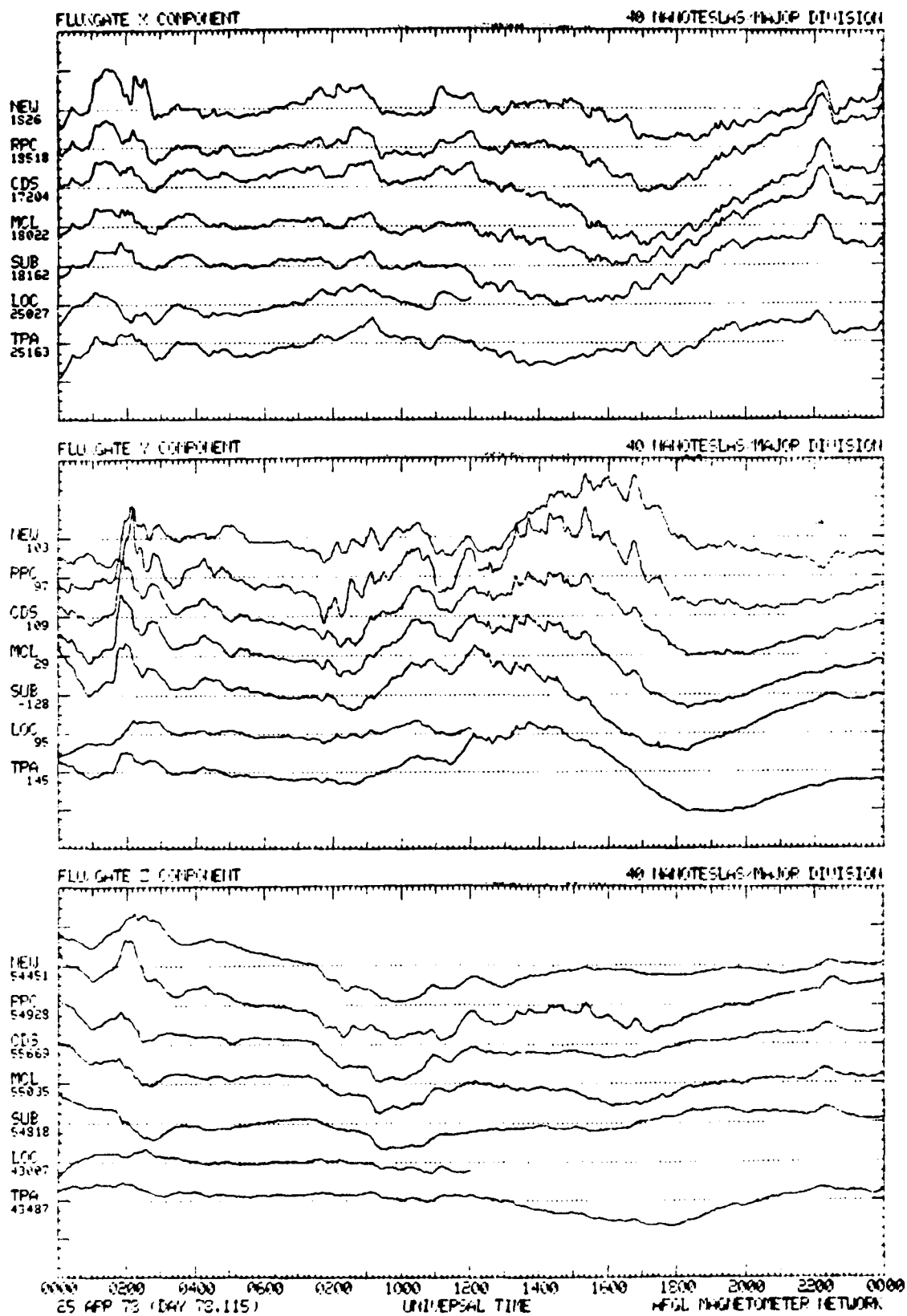
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20 HRS TO (GMT-07:00) ▶ UNIVERSAL TIME ◀ FULL INCH/METER RETURN

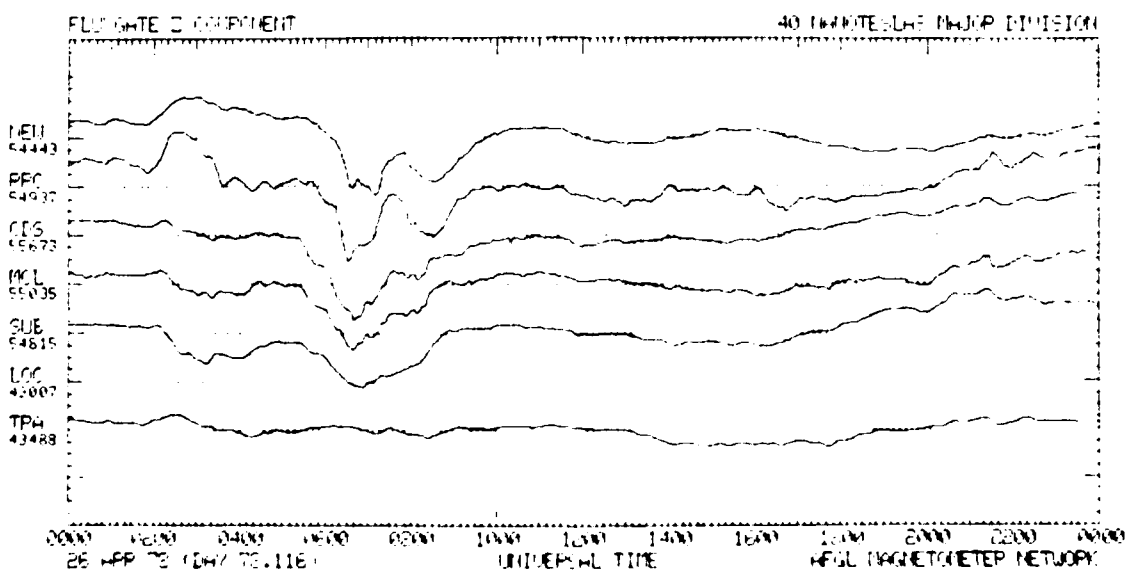
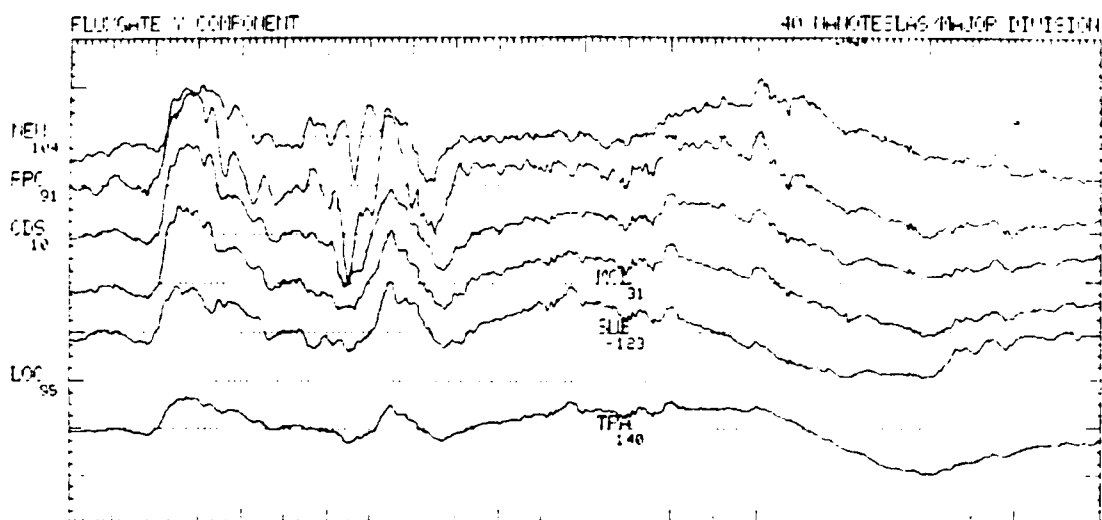
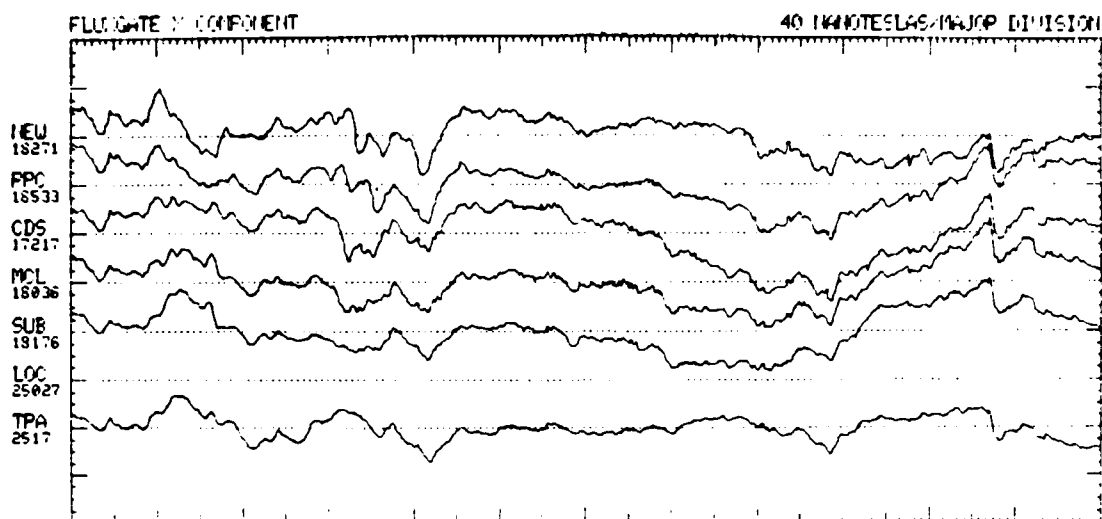


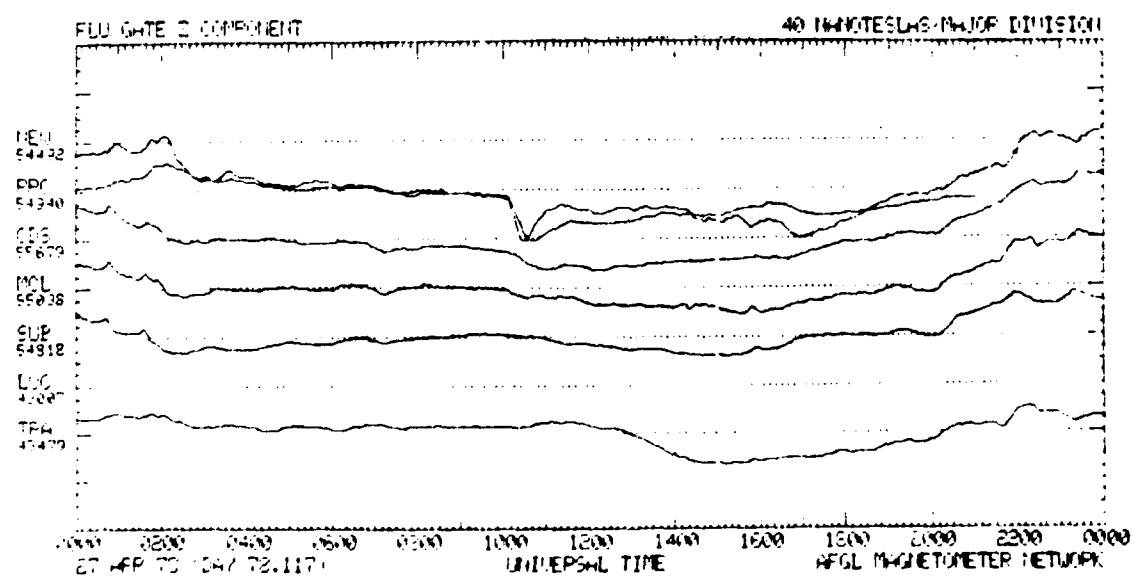
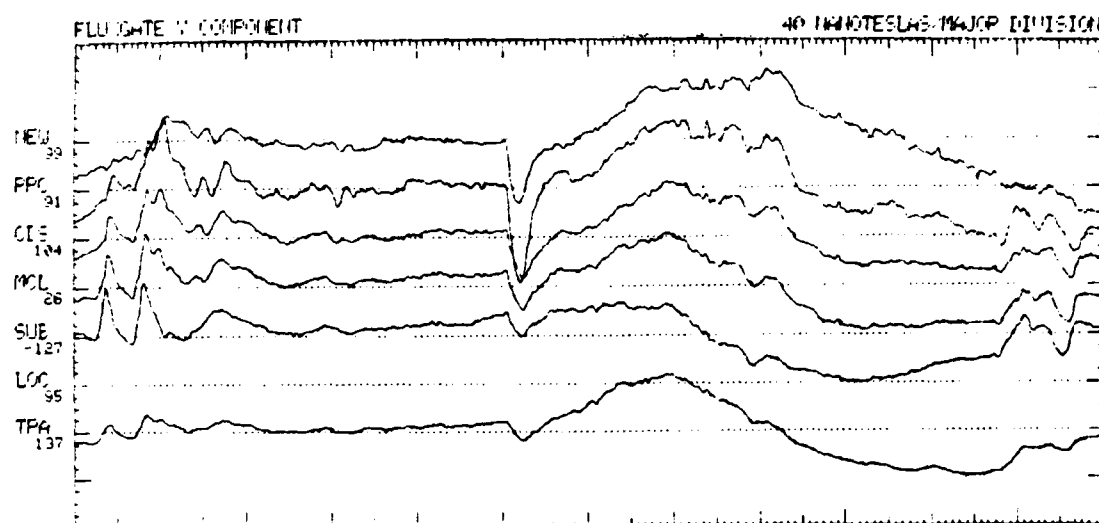
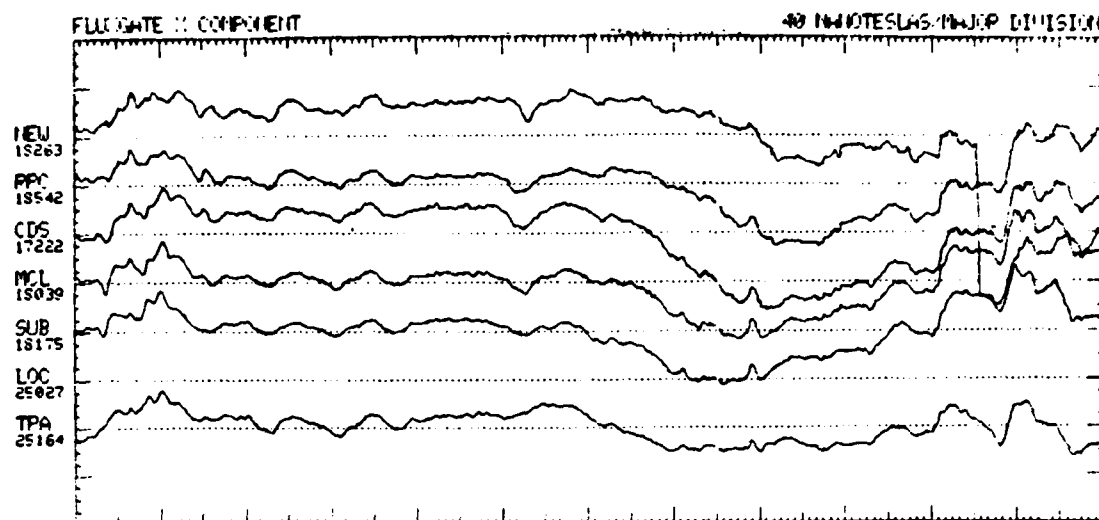


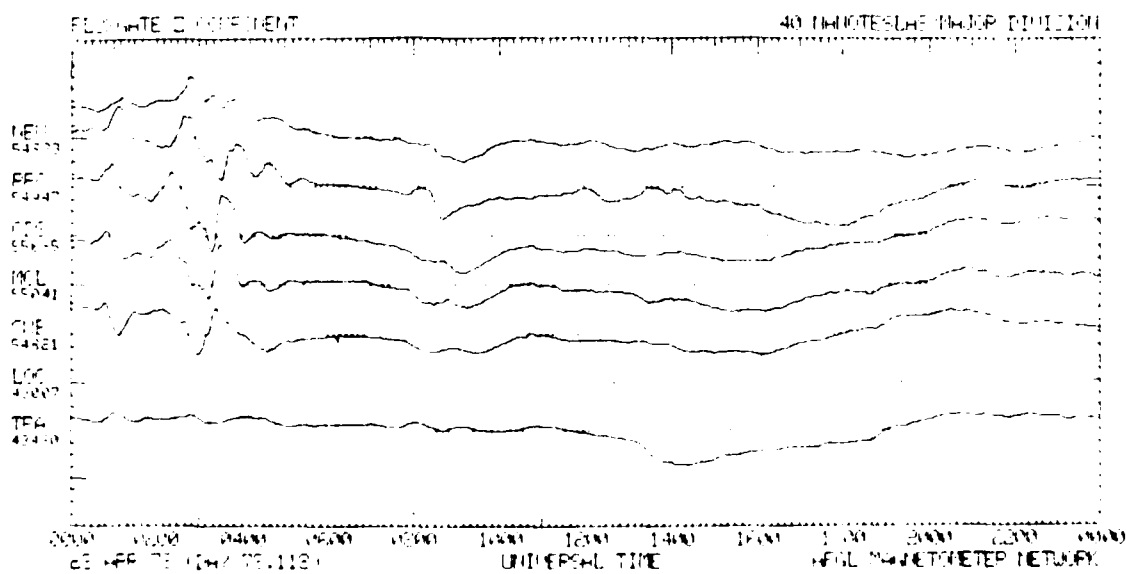
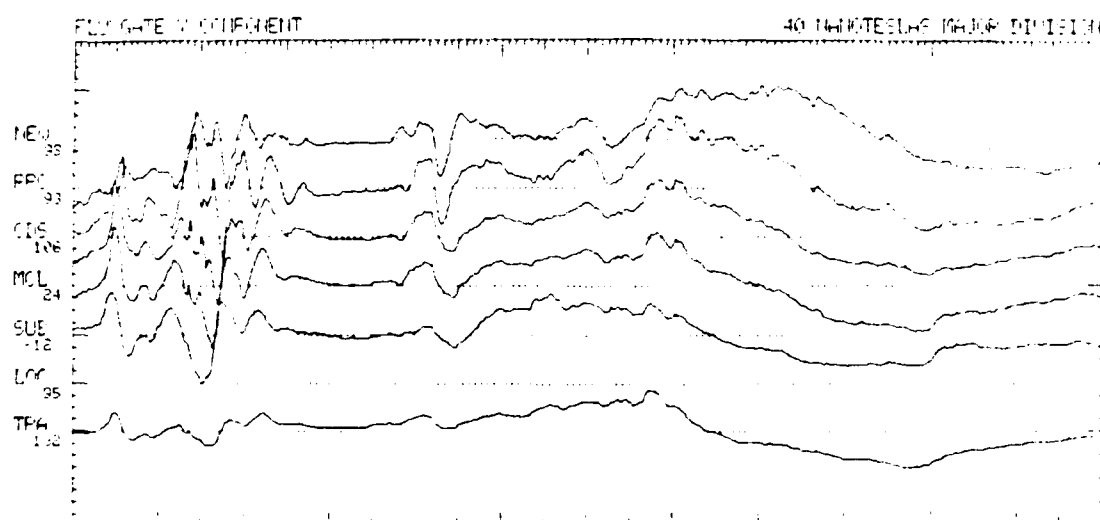
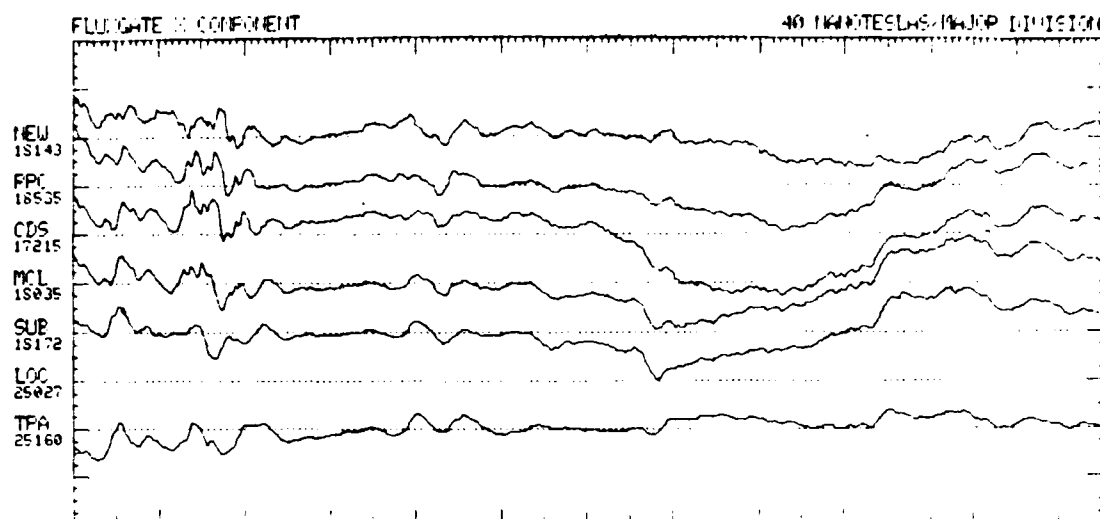


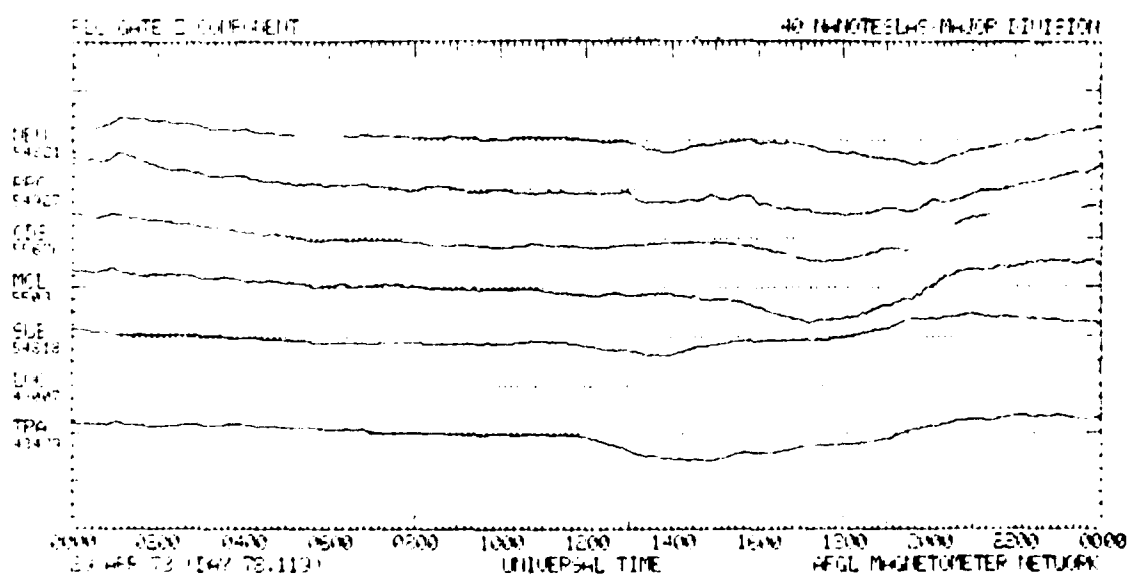
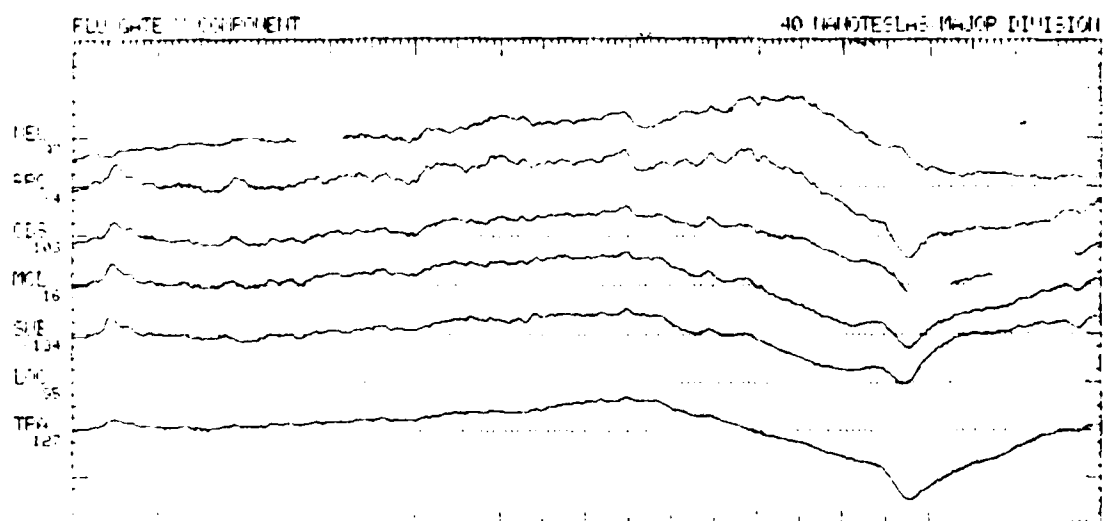
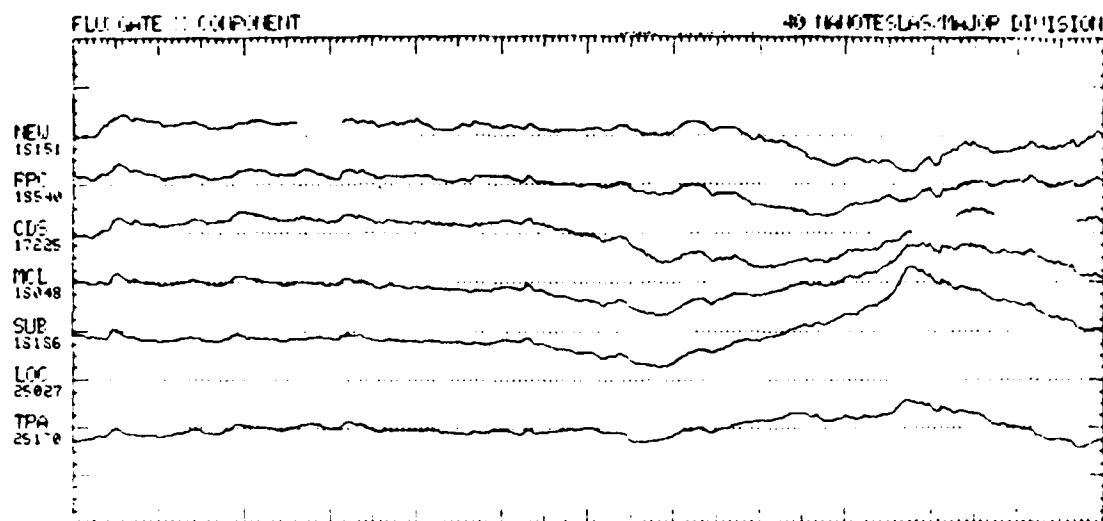


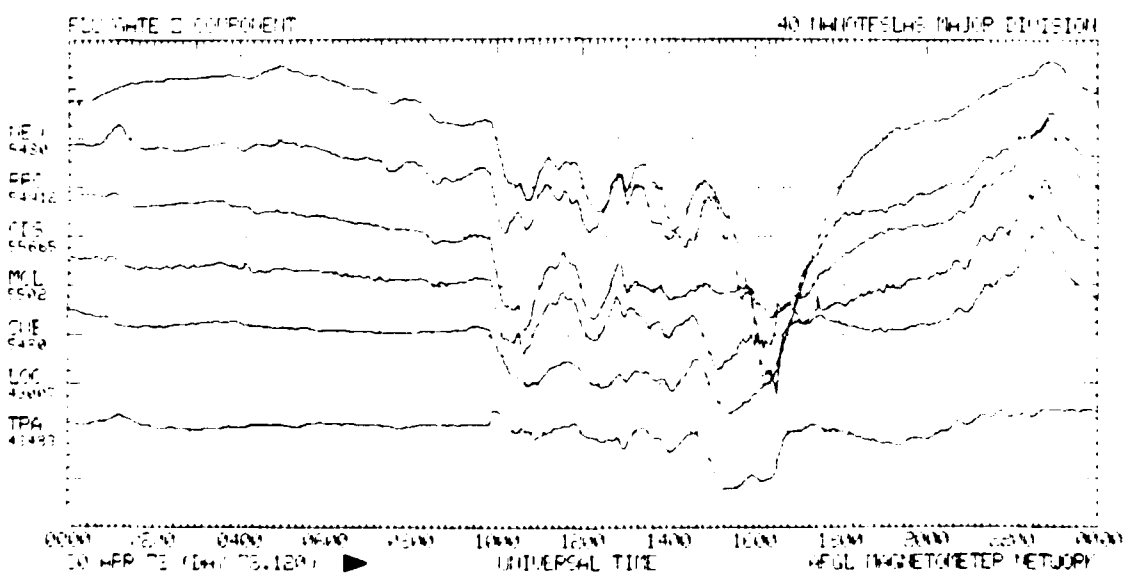
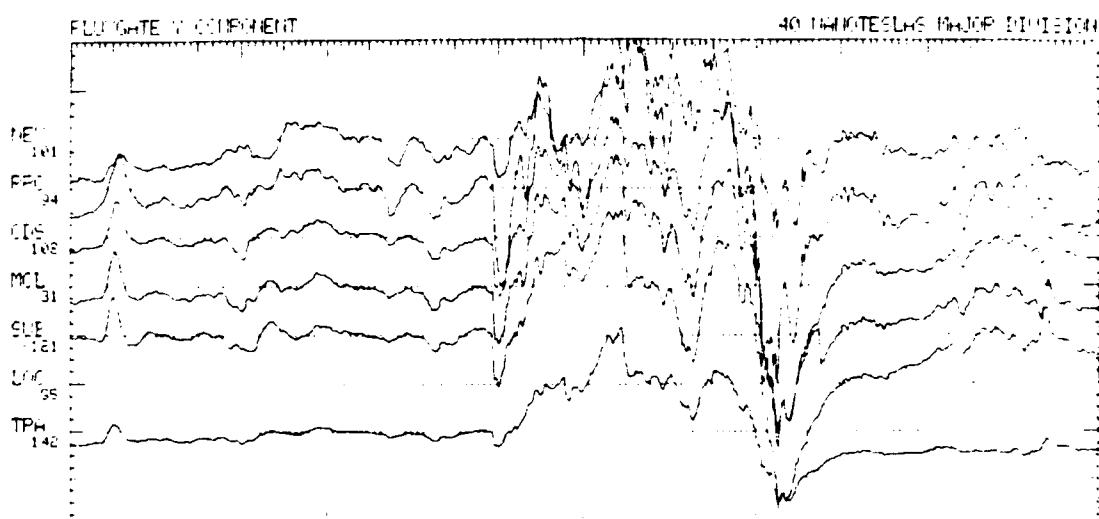
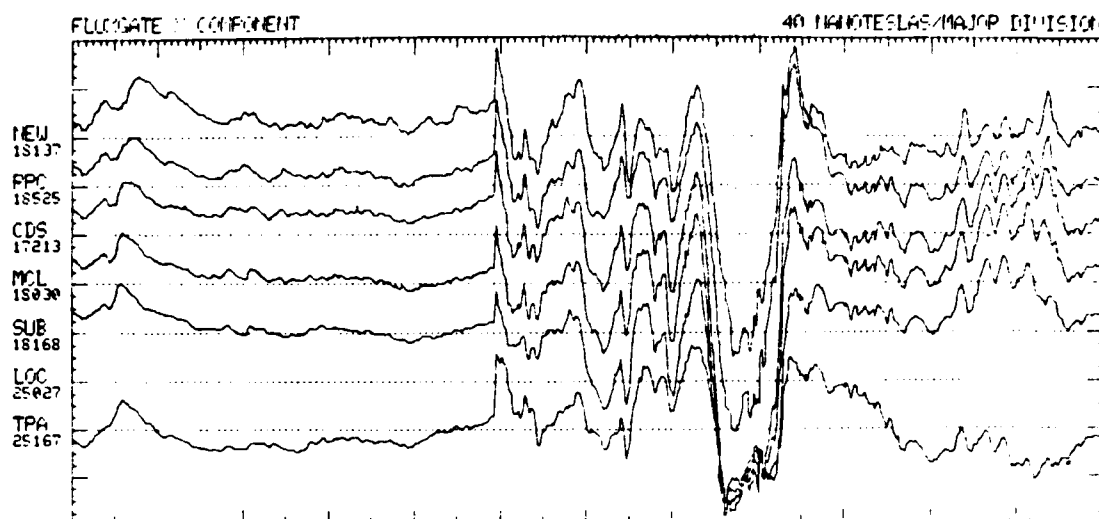


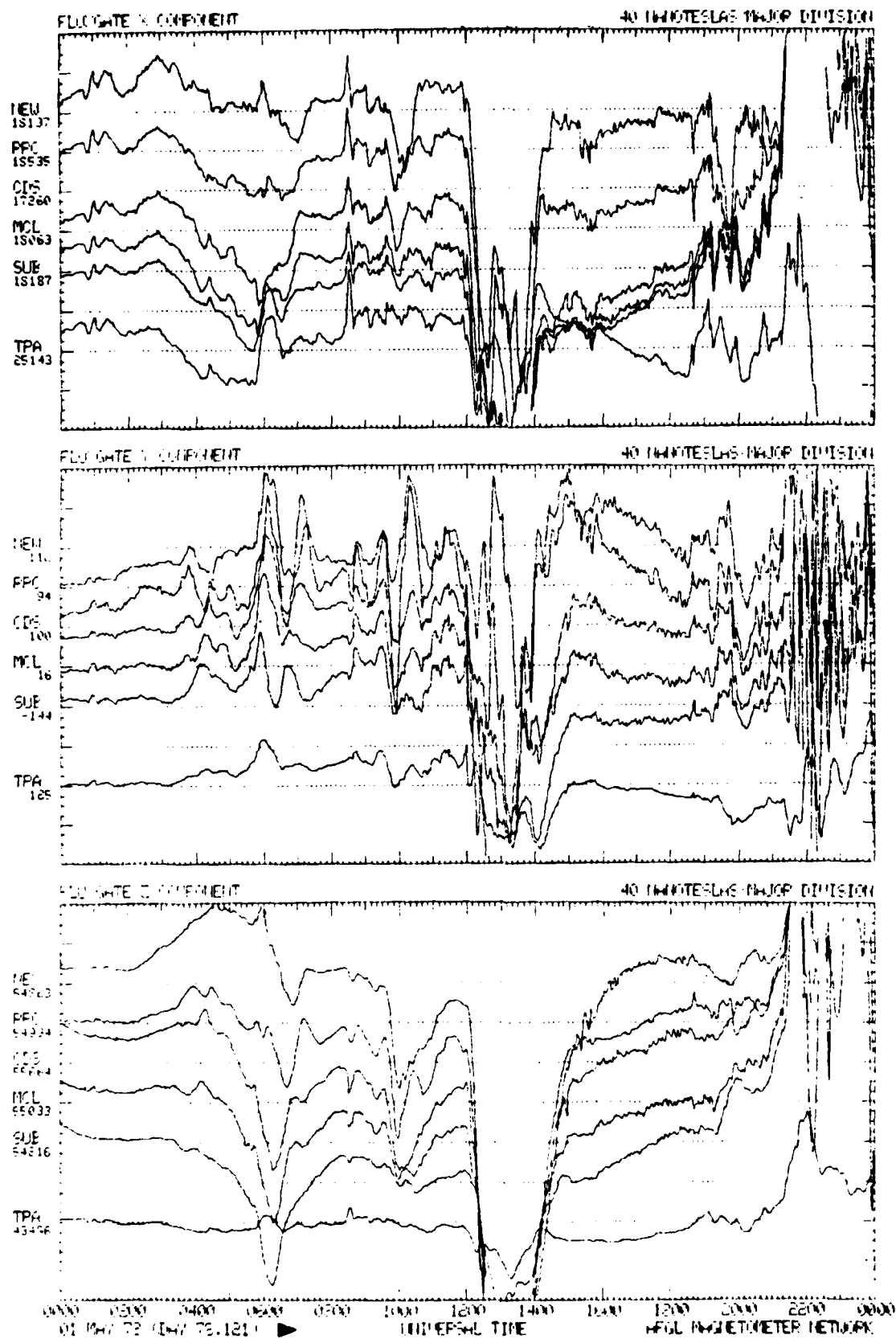


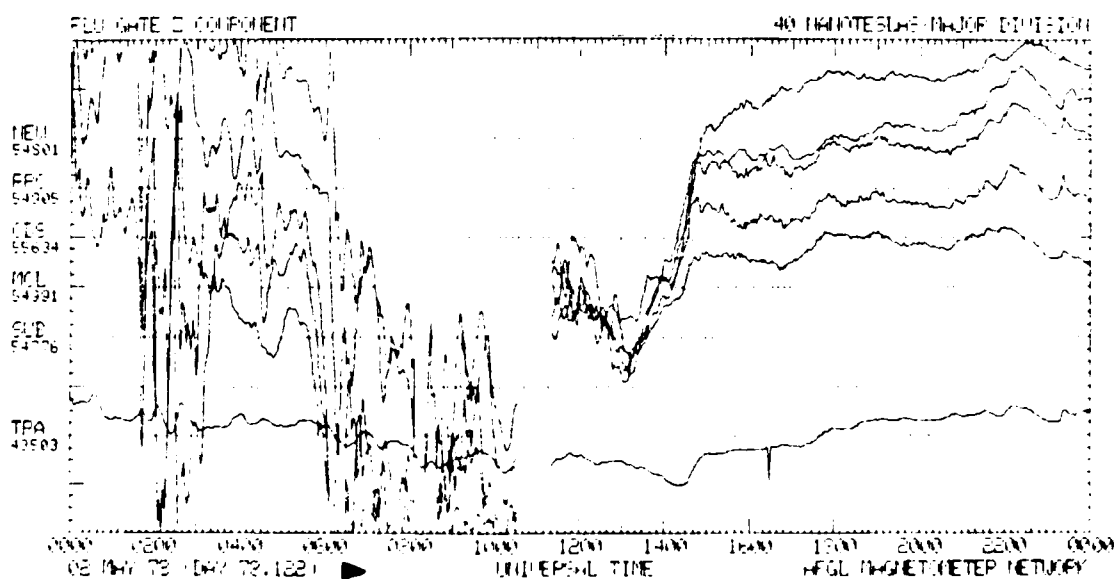
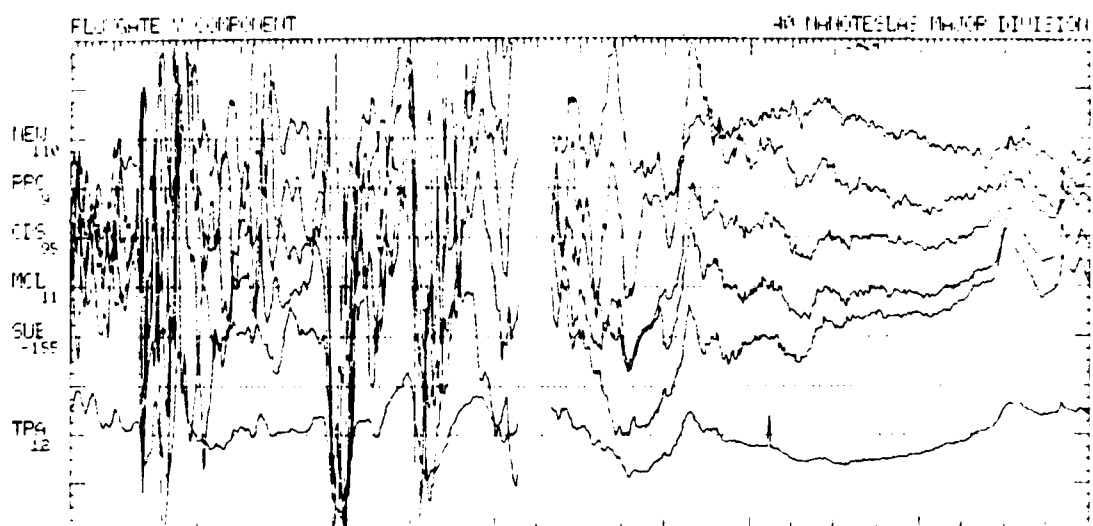
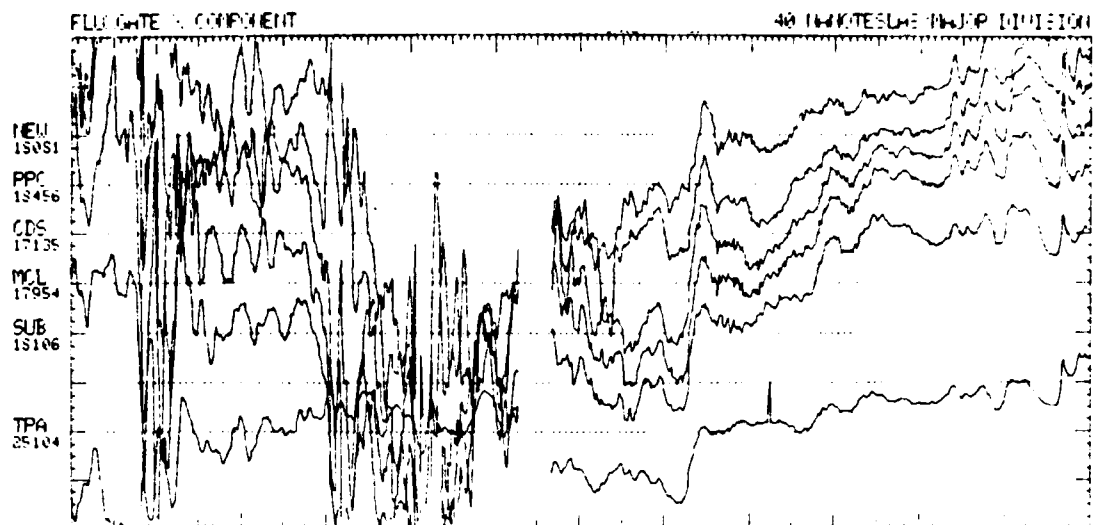


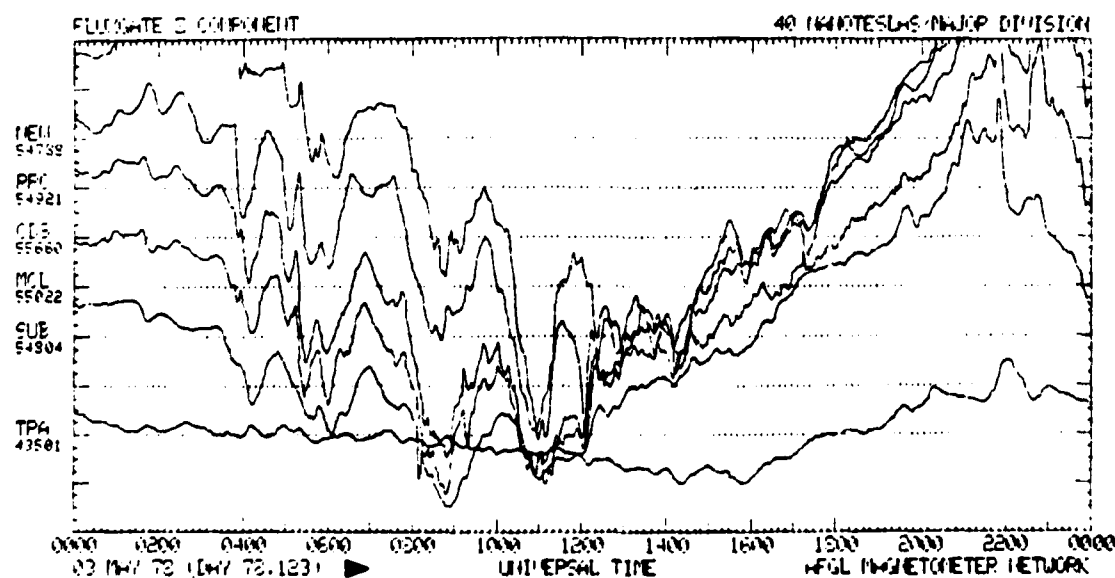
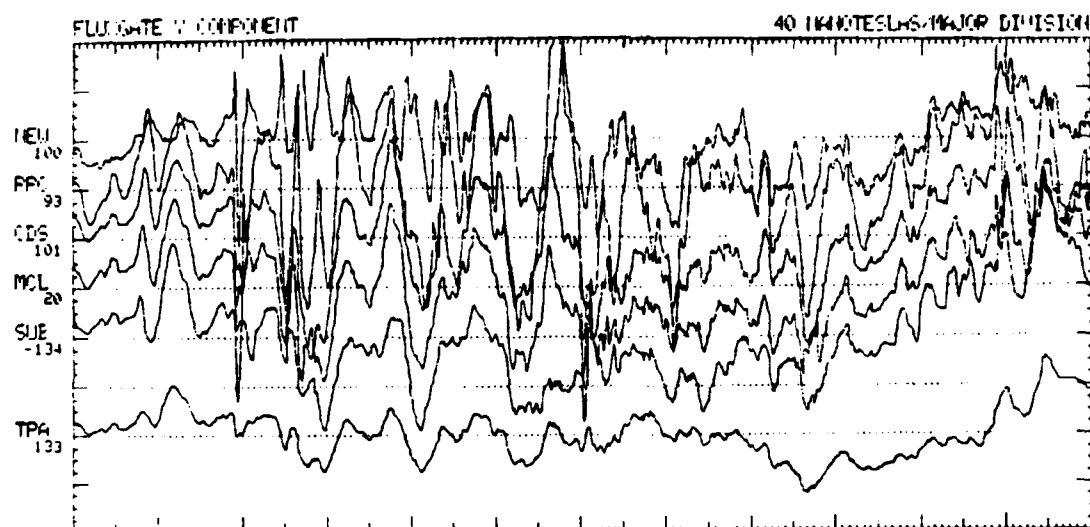
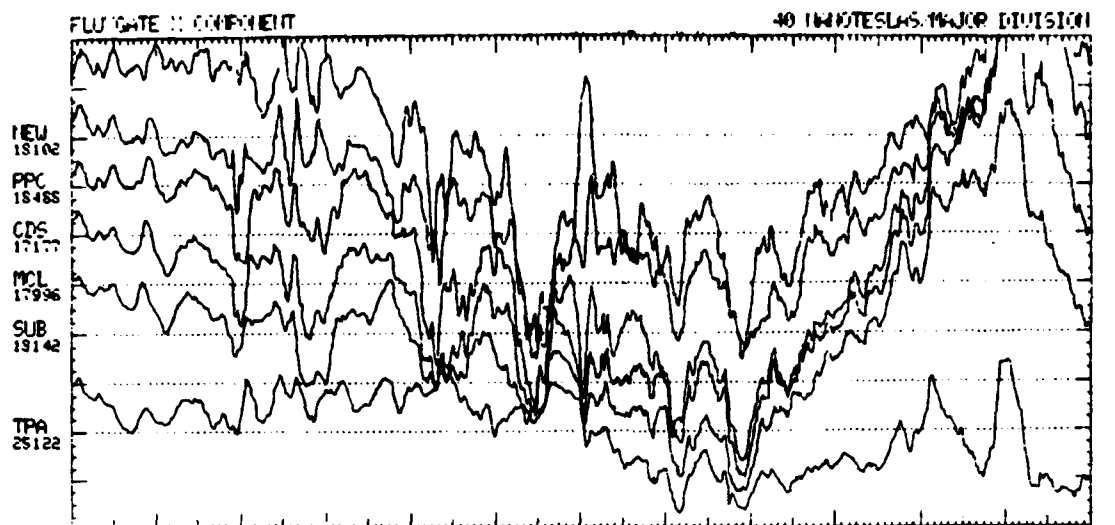


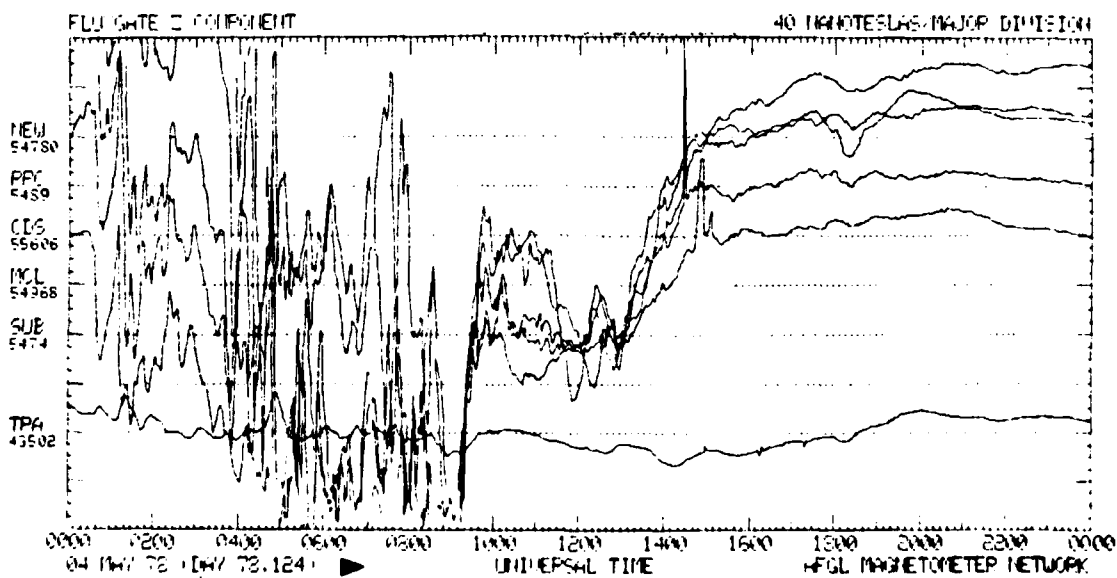
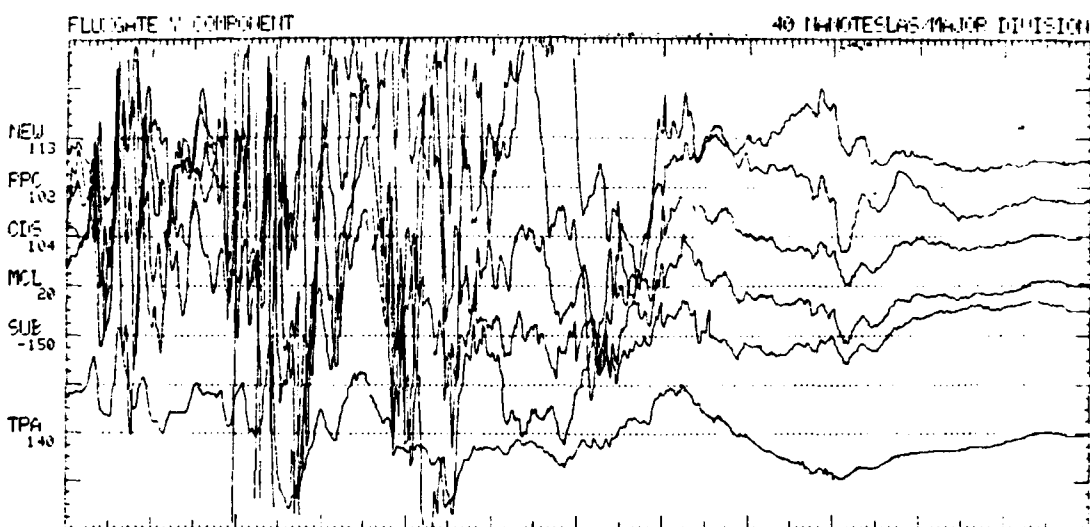
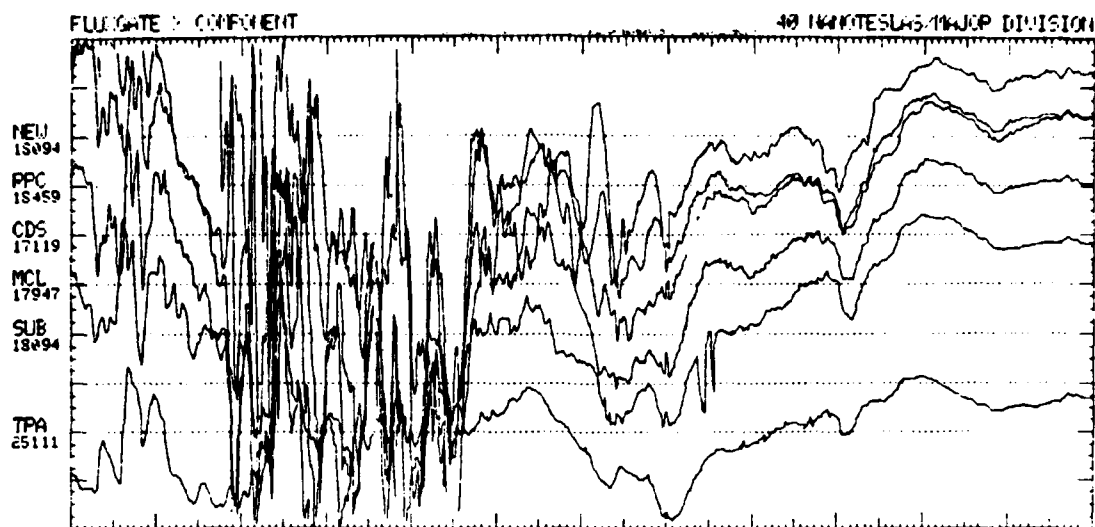


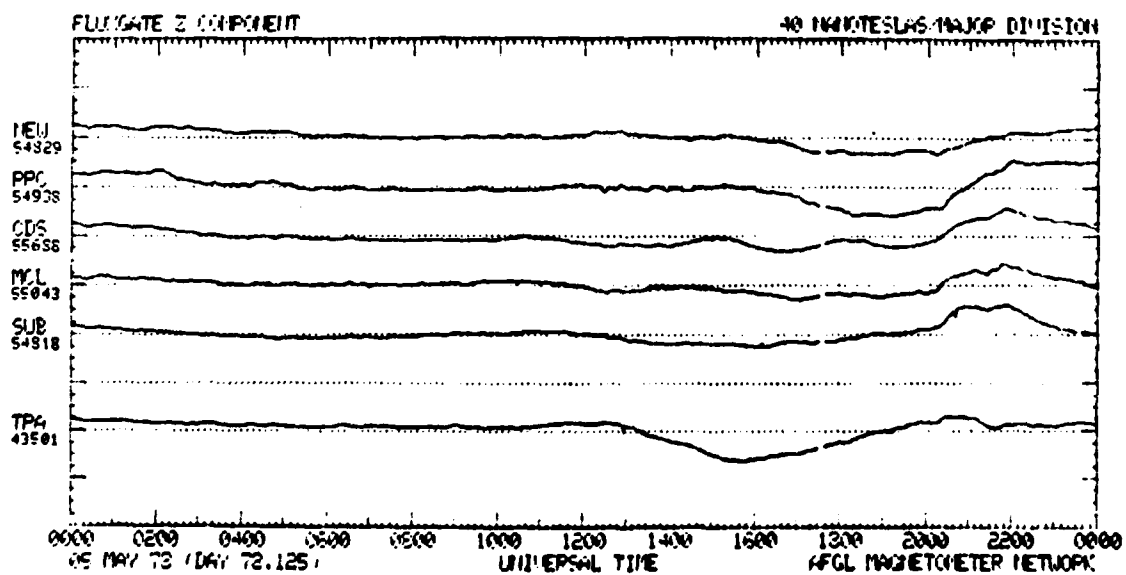
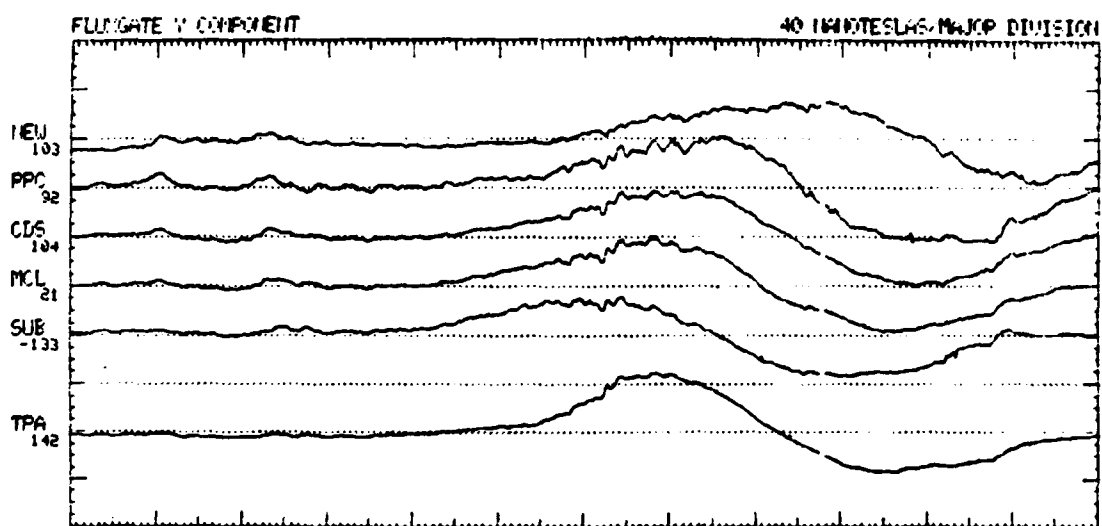
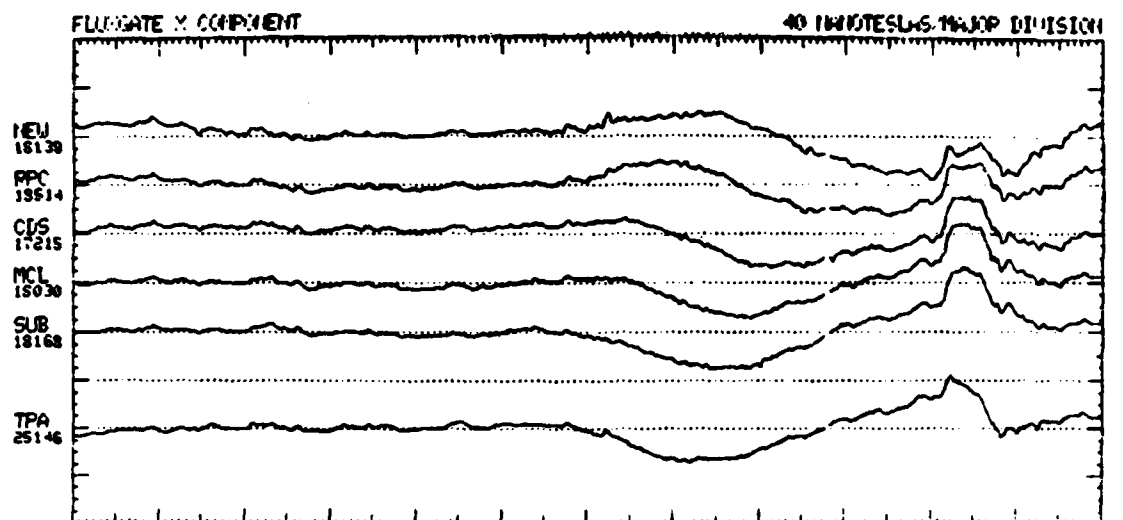


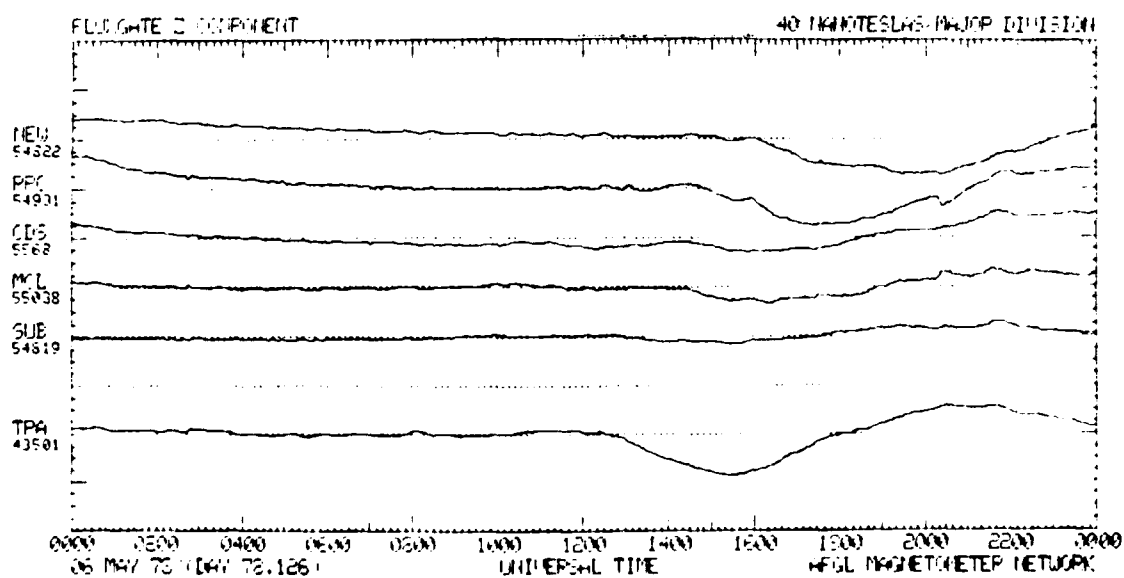
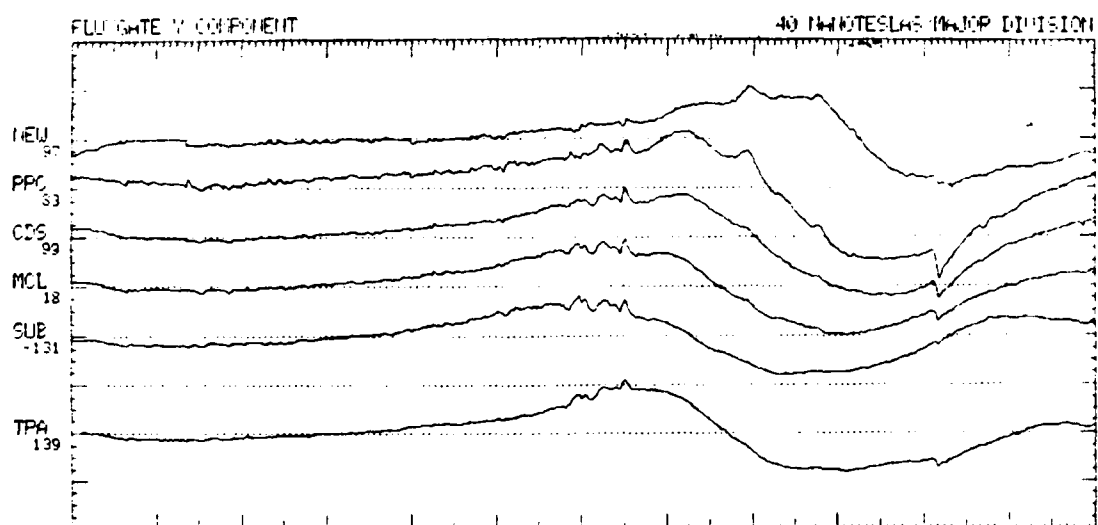
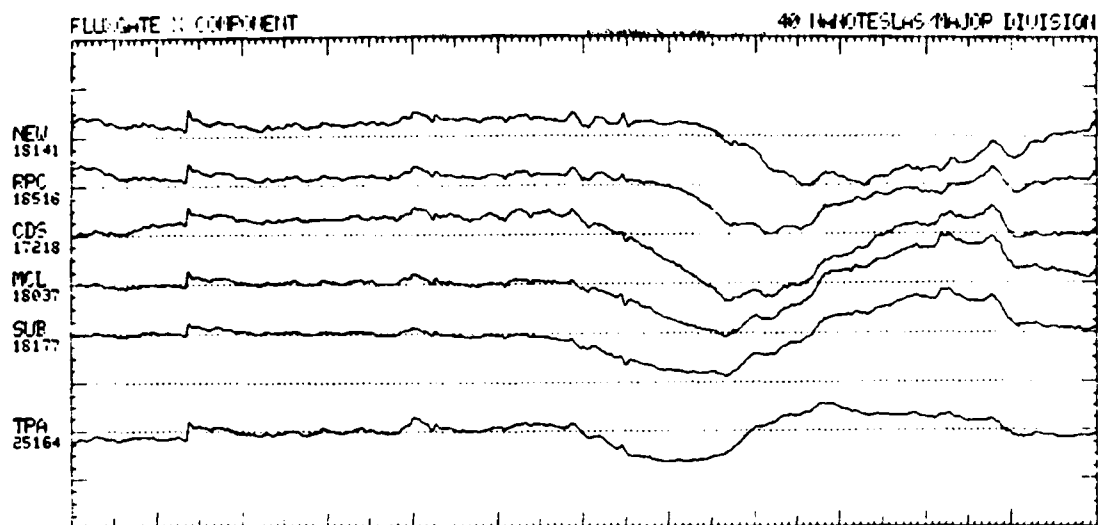








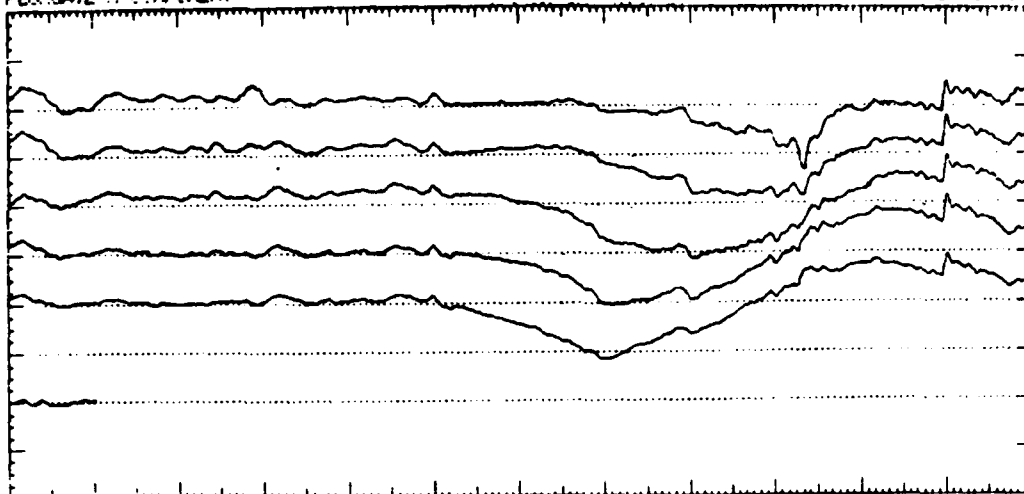




FLIGHT 11 COMPONENT

40 NANOTESLAS/MAJOR DIVISION

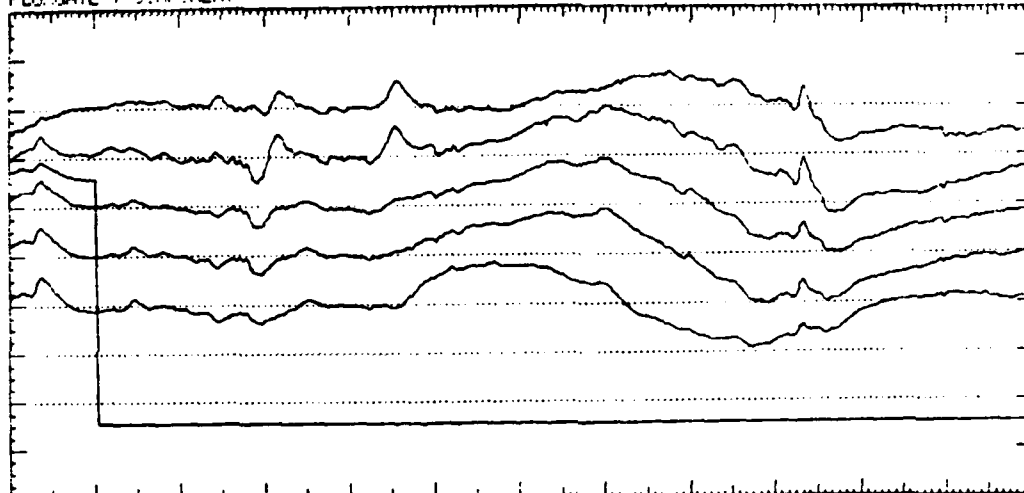
NEU
15148
PPC
15513
CDS
17221
MCL
15038
SUB
18176
TPA
25162



FLIGHT 12 COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
102
PPC
95
CDS
107
MCL
22
SUB
-127
TPA
-44

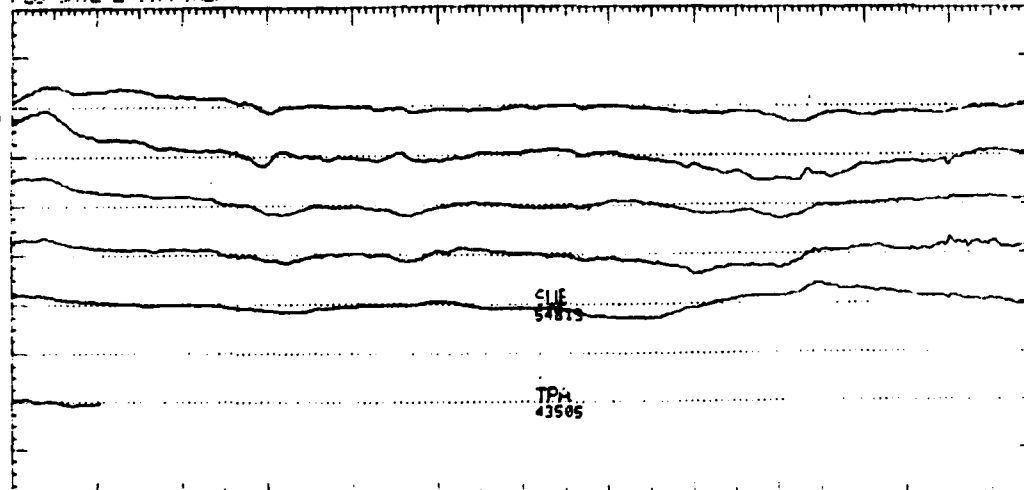


FLIGHT 13 COMPONENT

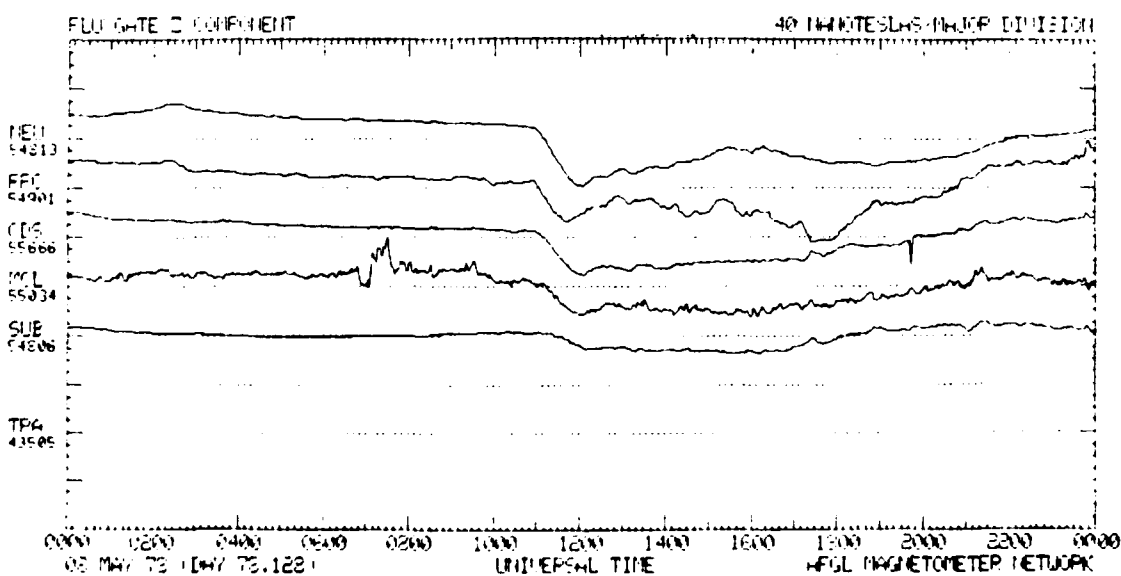
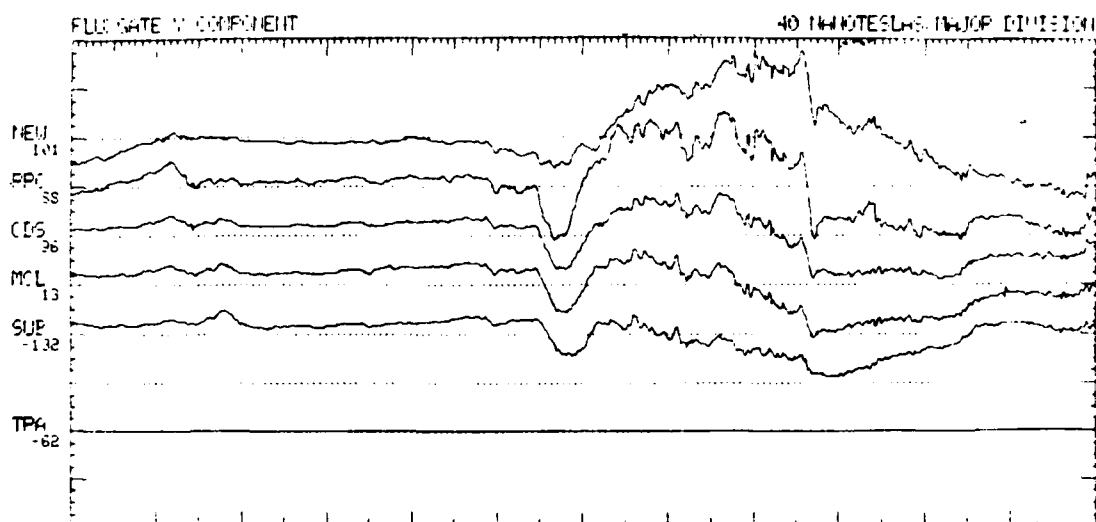
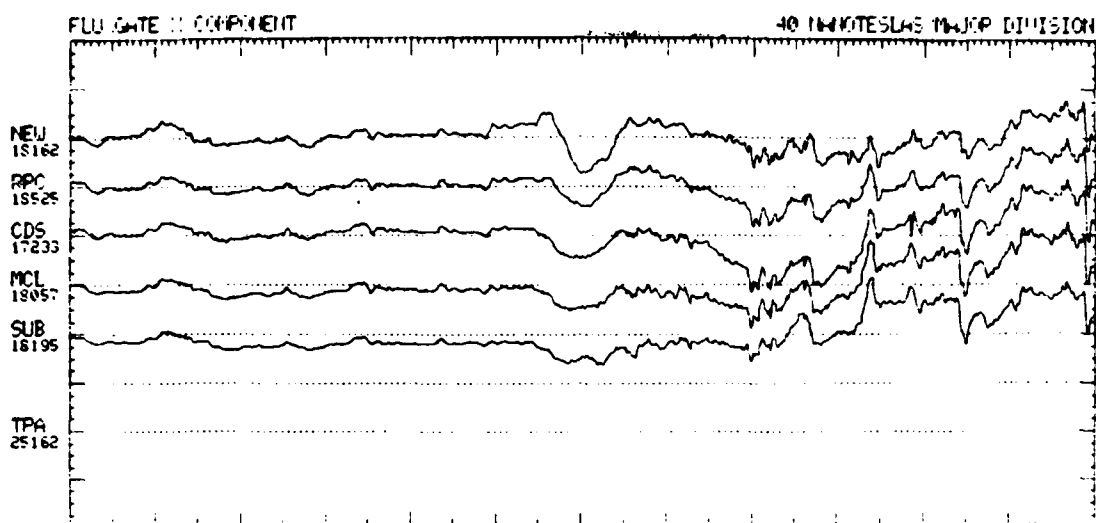
40 NANOTESLAS/MAJOR DIVISION

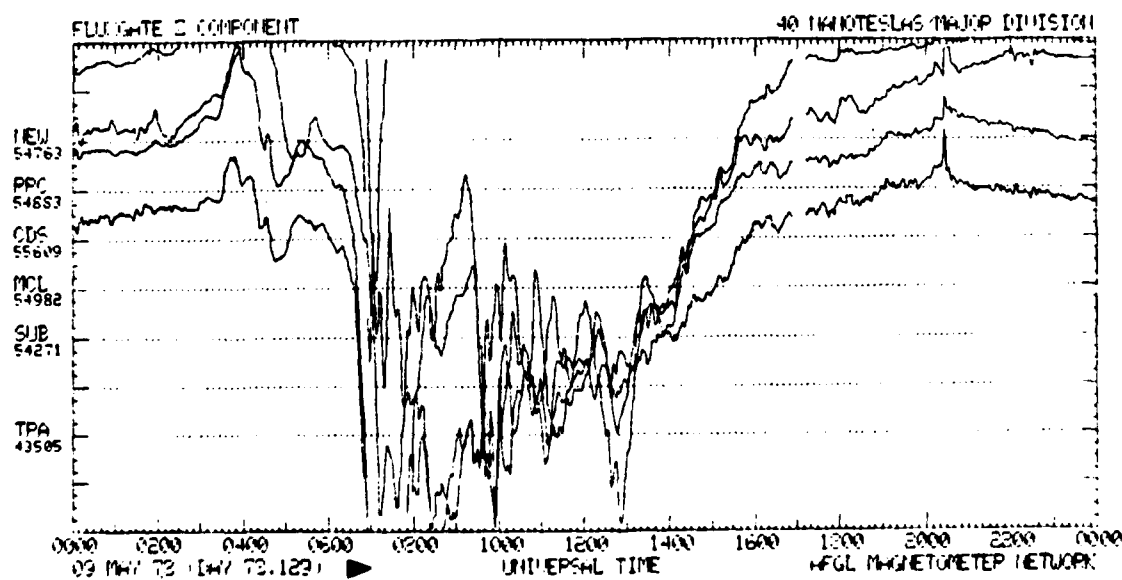
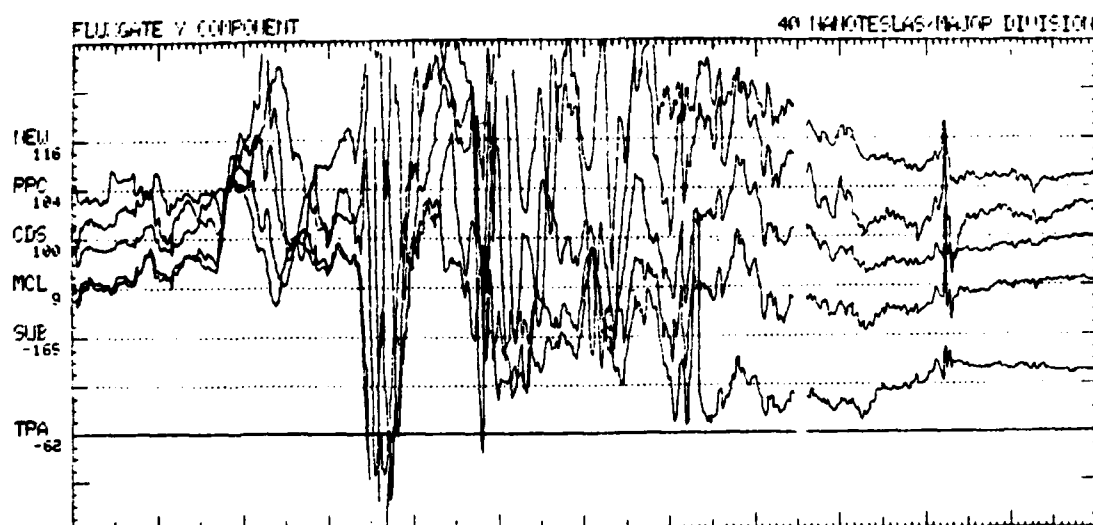
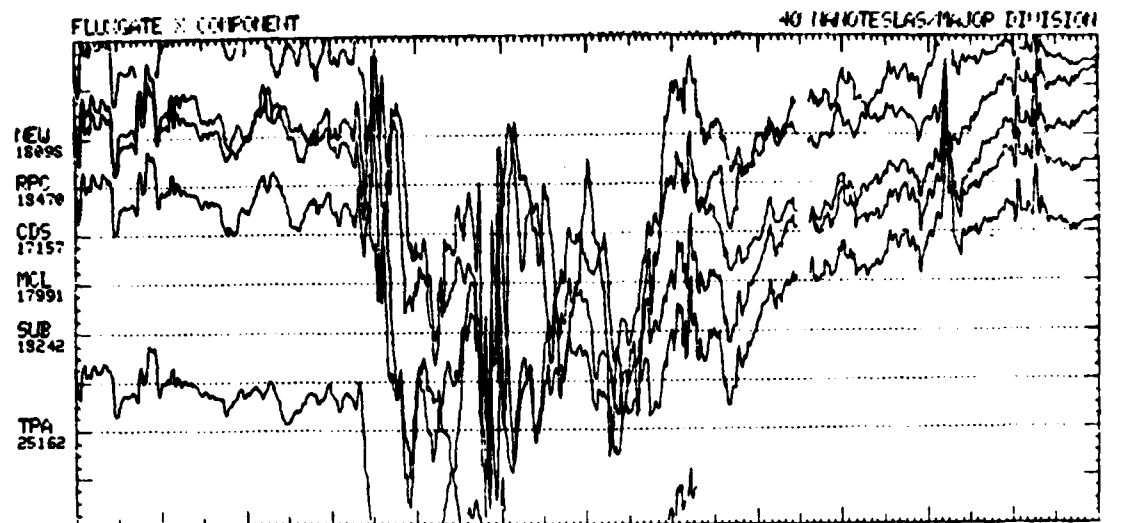
NEU
54529
PPC
54921
CDS
55681
MCL
5503

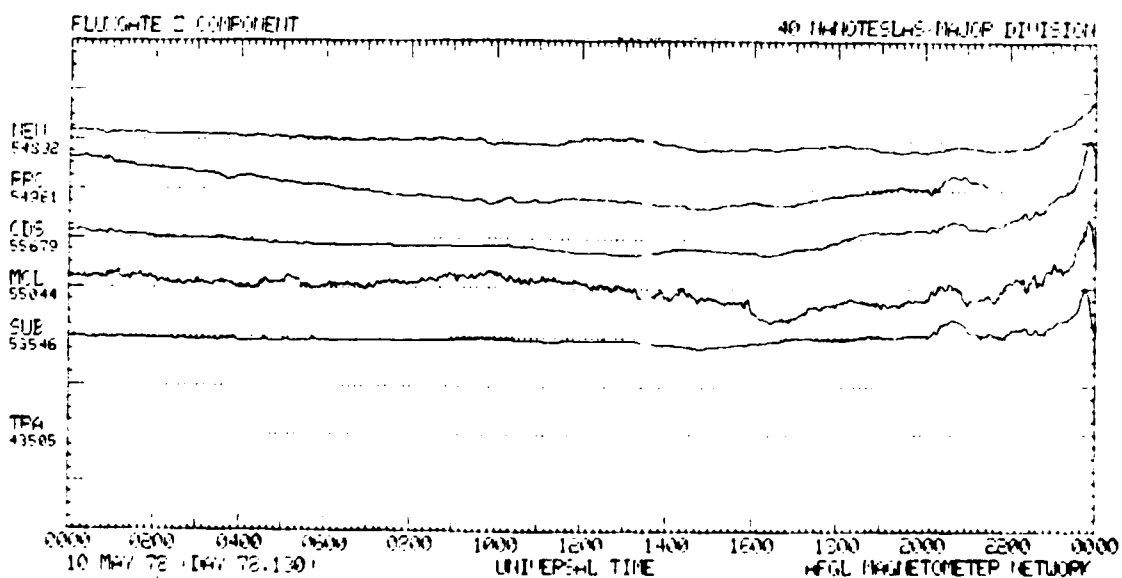
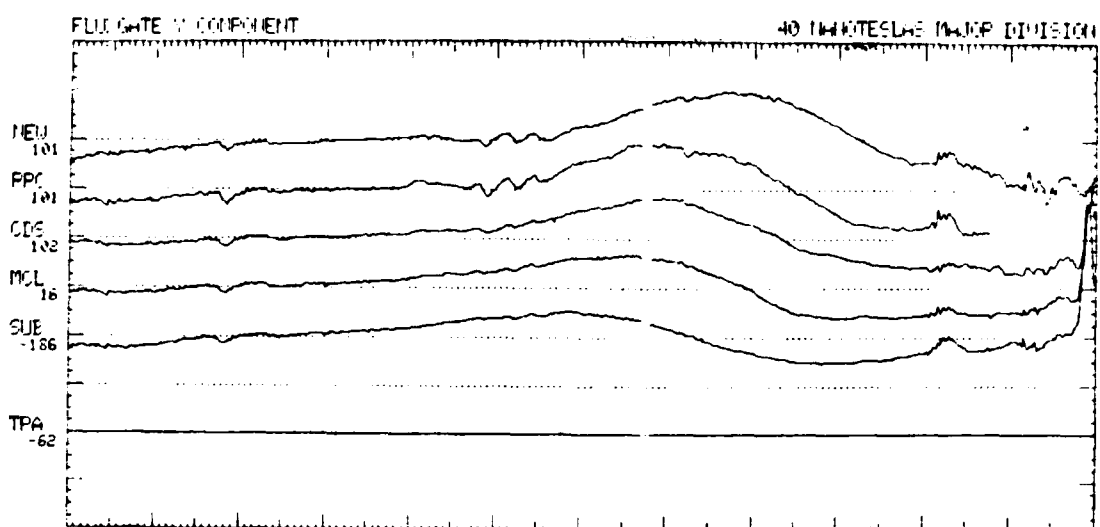
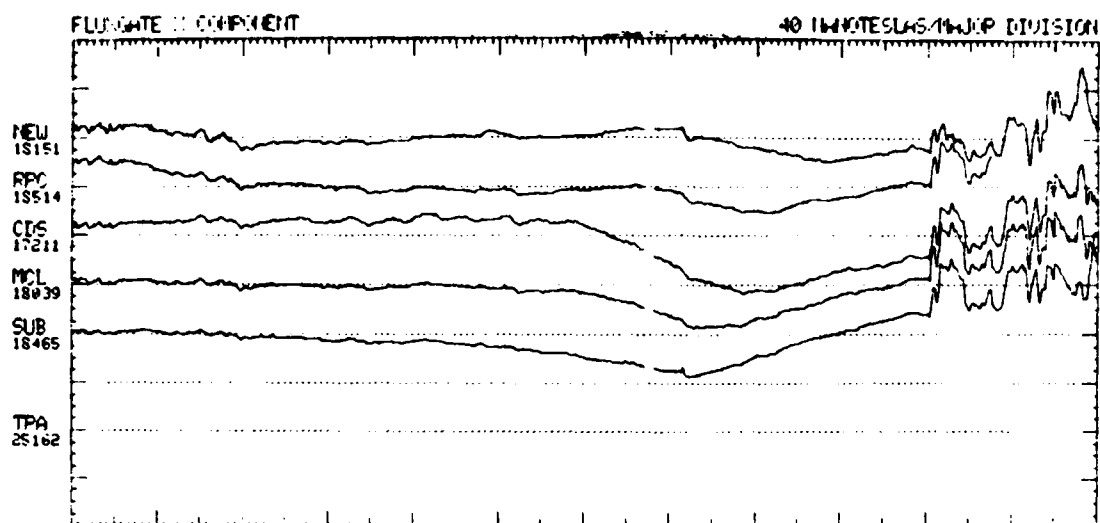
SUB
54815
TPA
43505

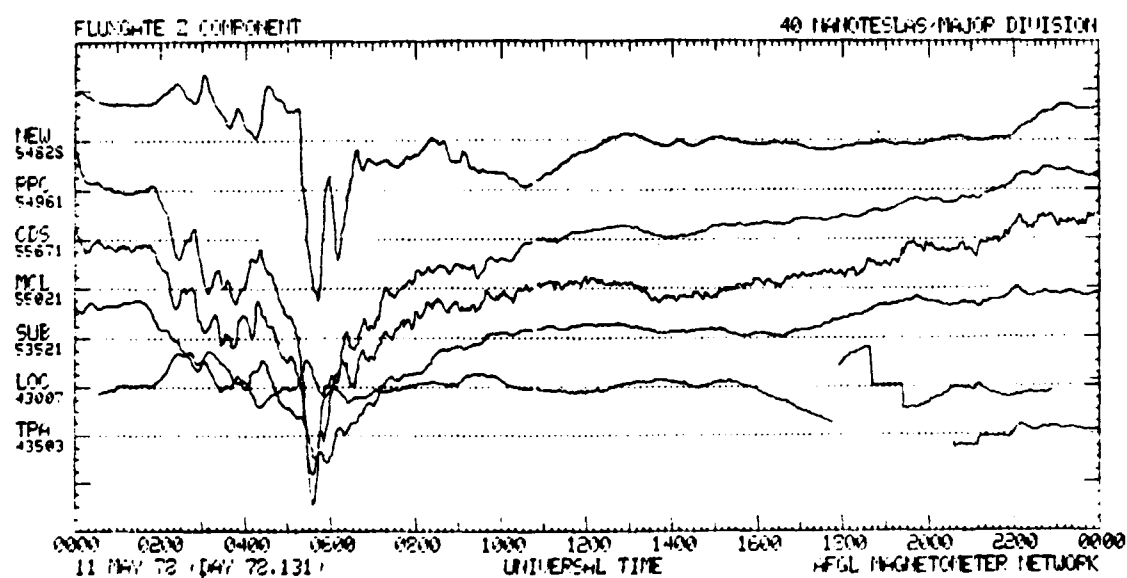
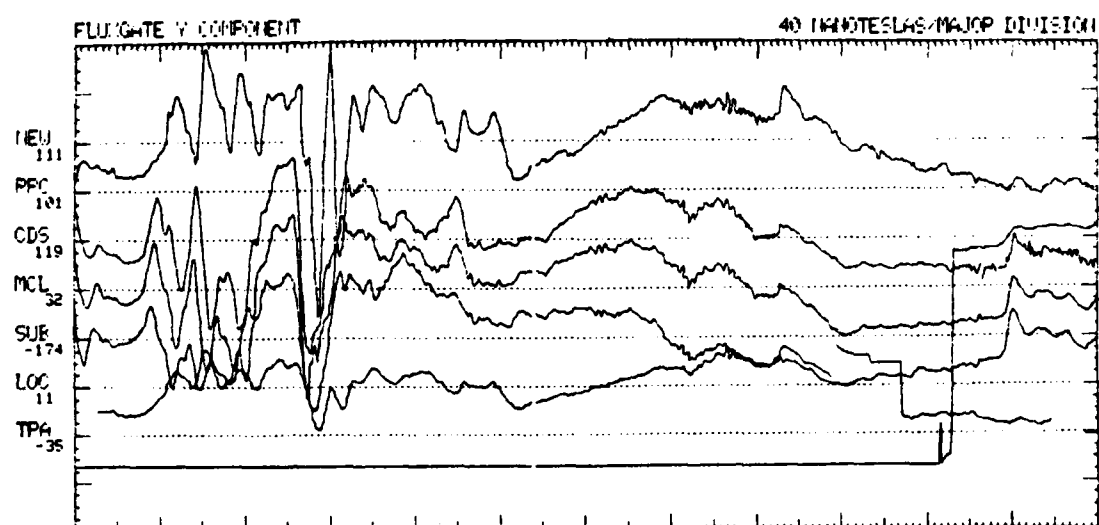
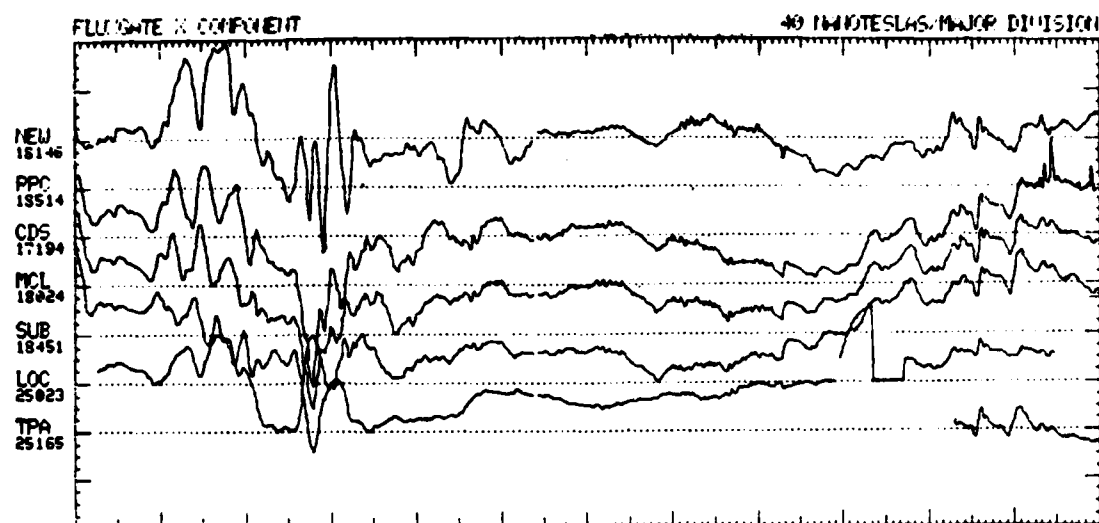


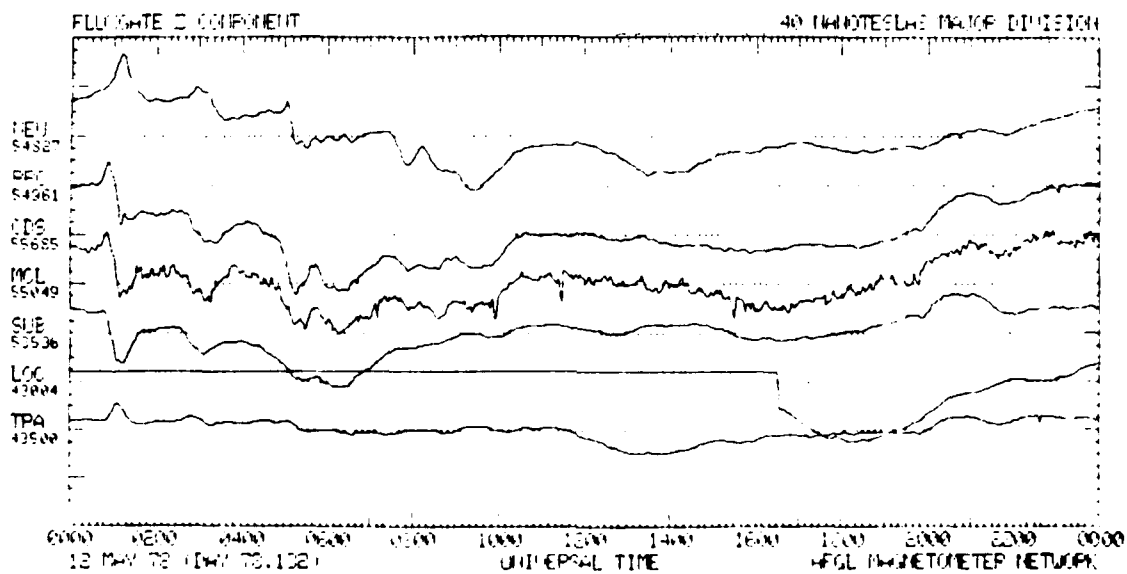
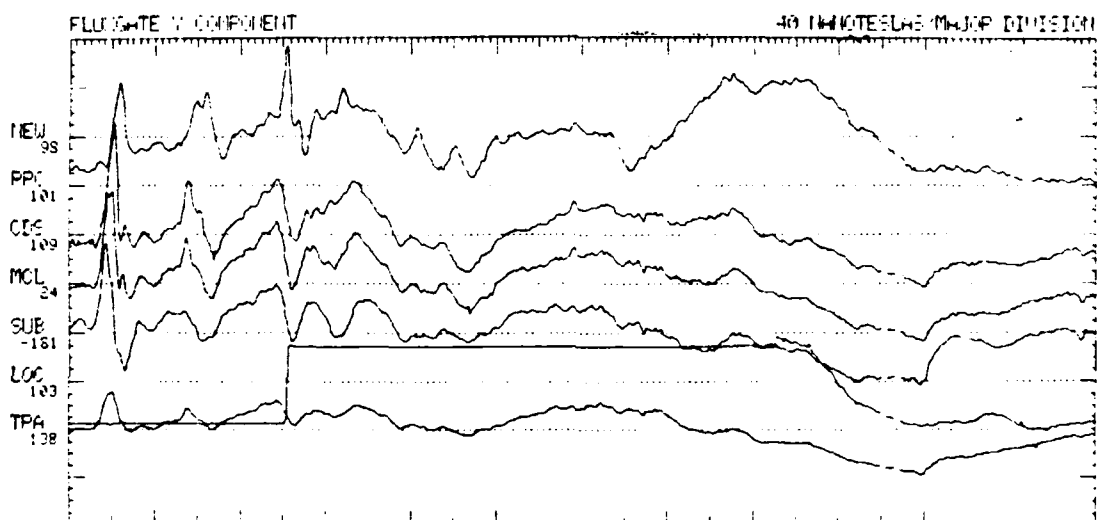
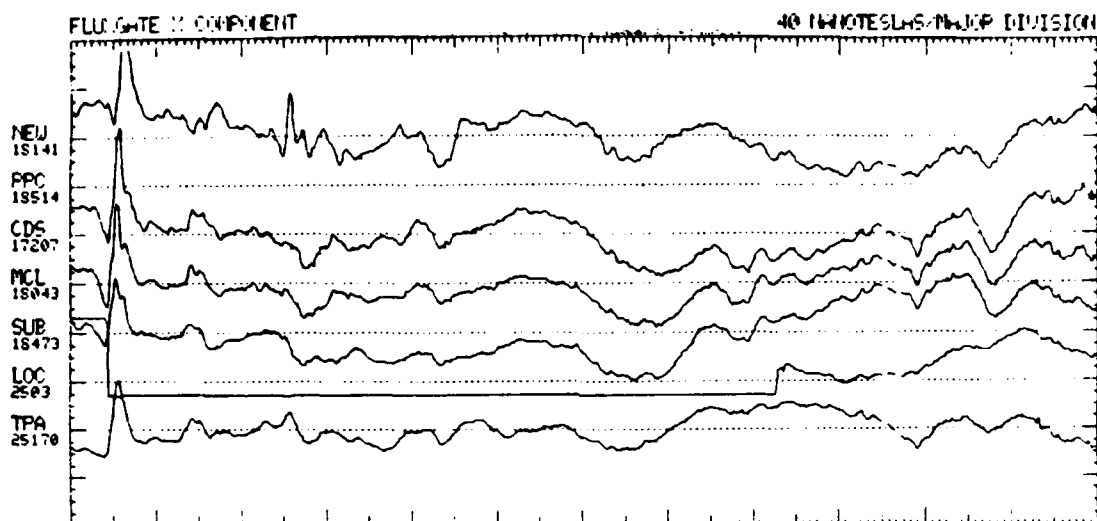
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 MAY 73 (DAY 73.127) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK

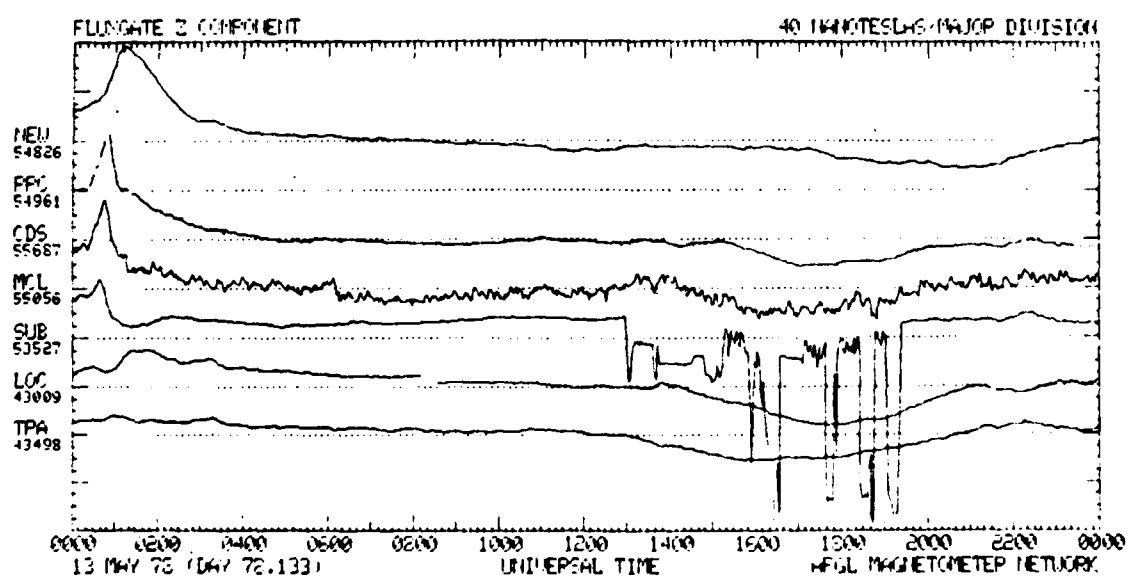
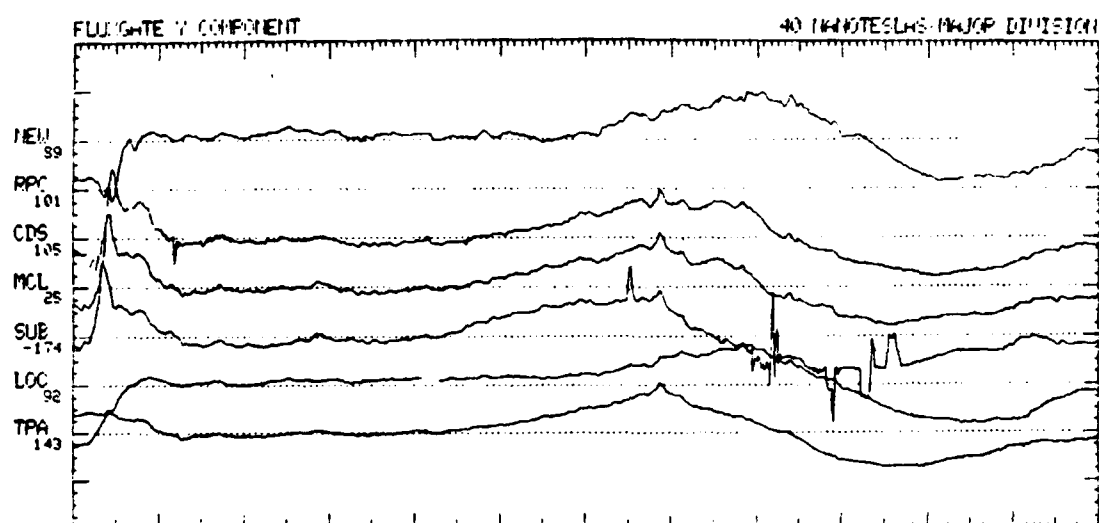
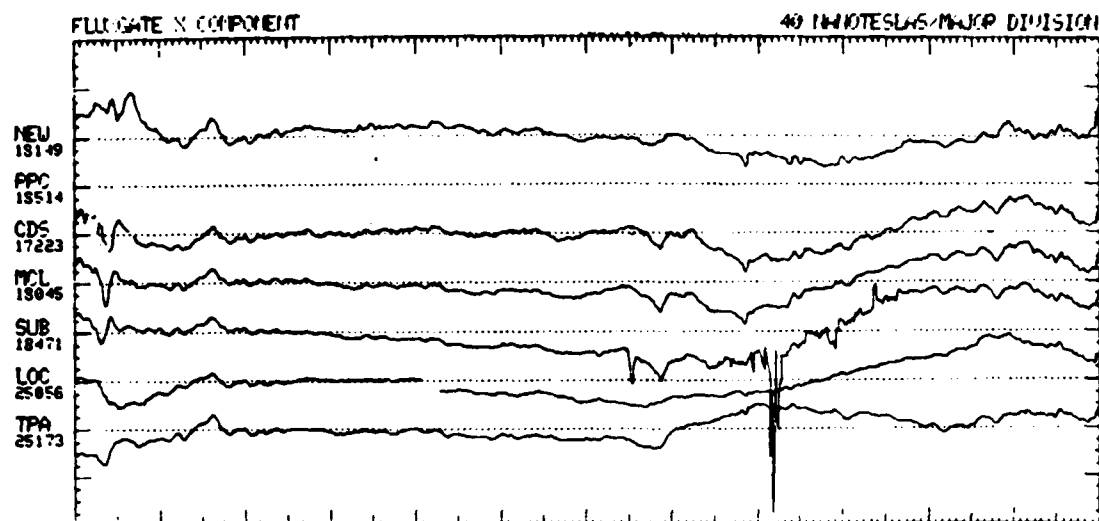


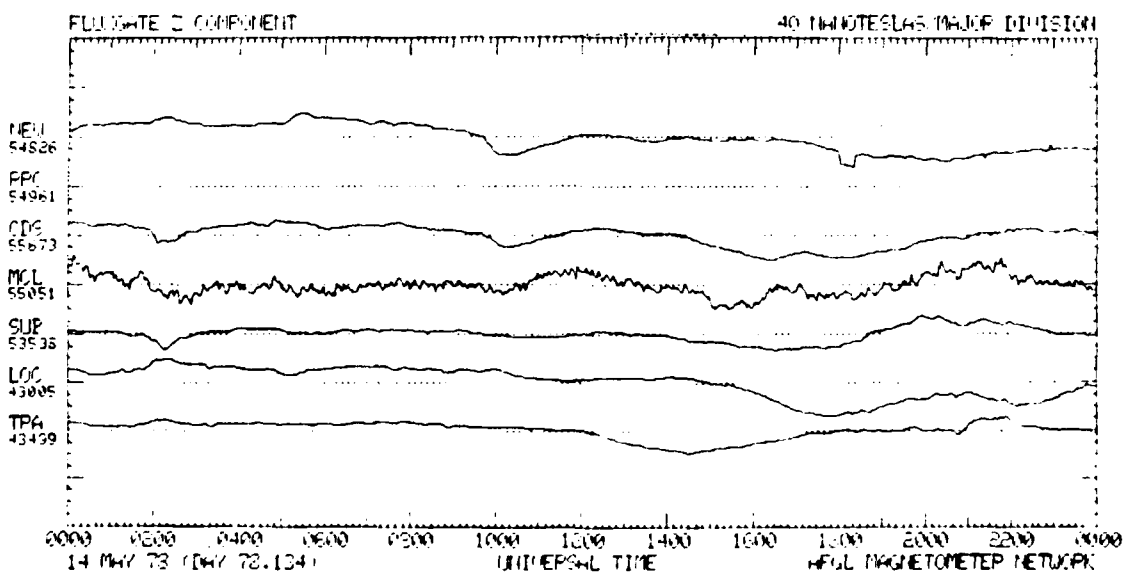
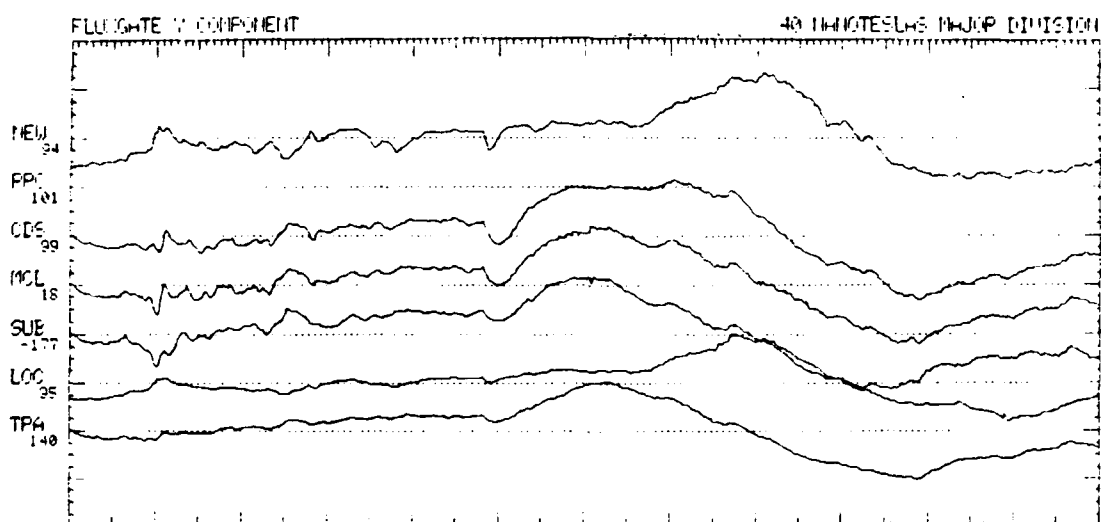
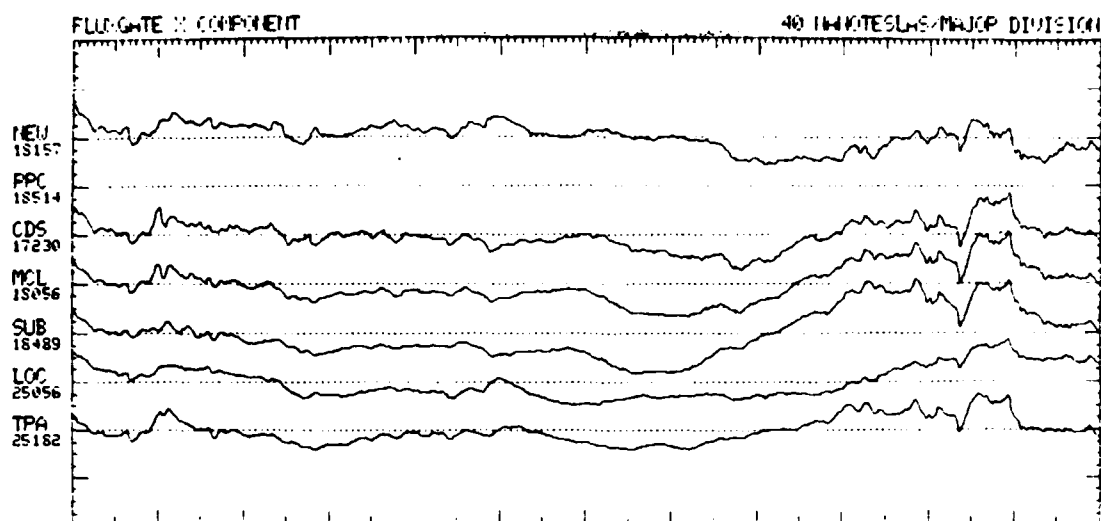


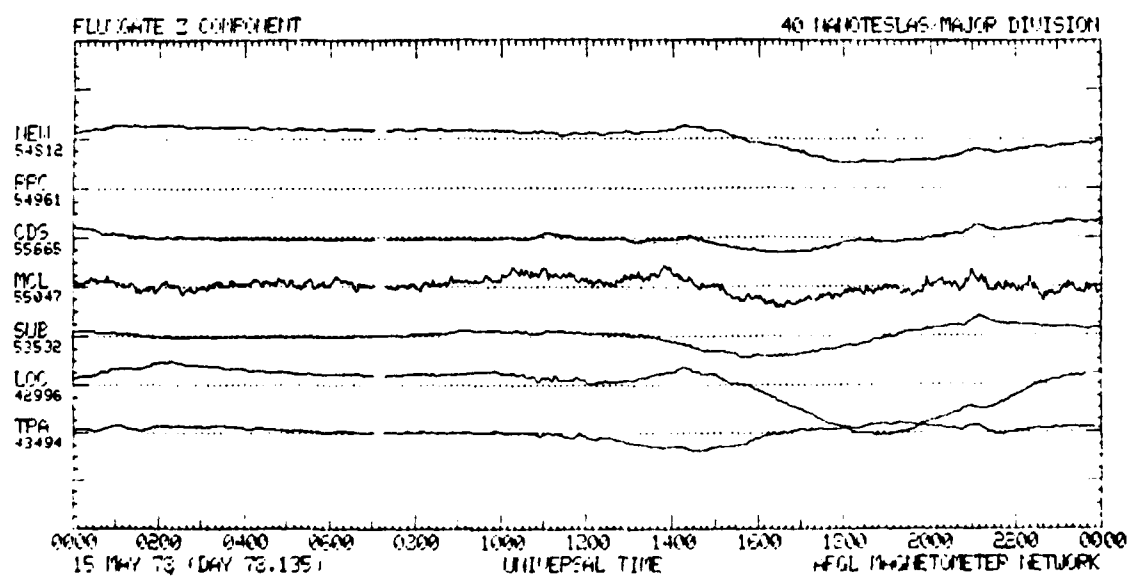
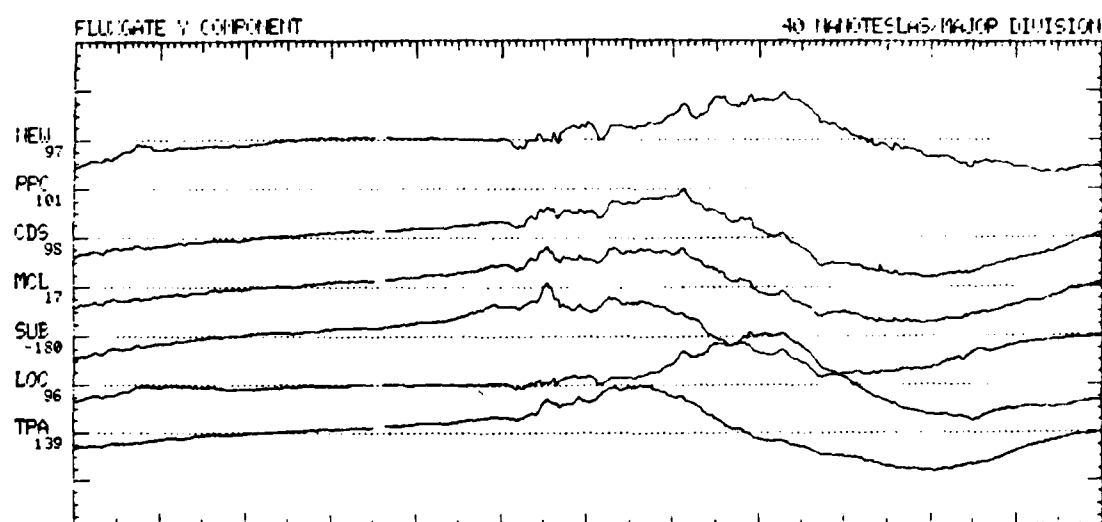
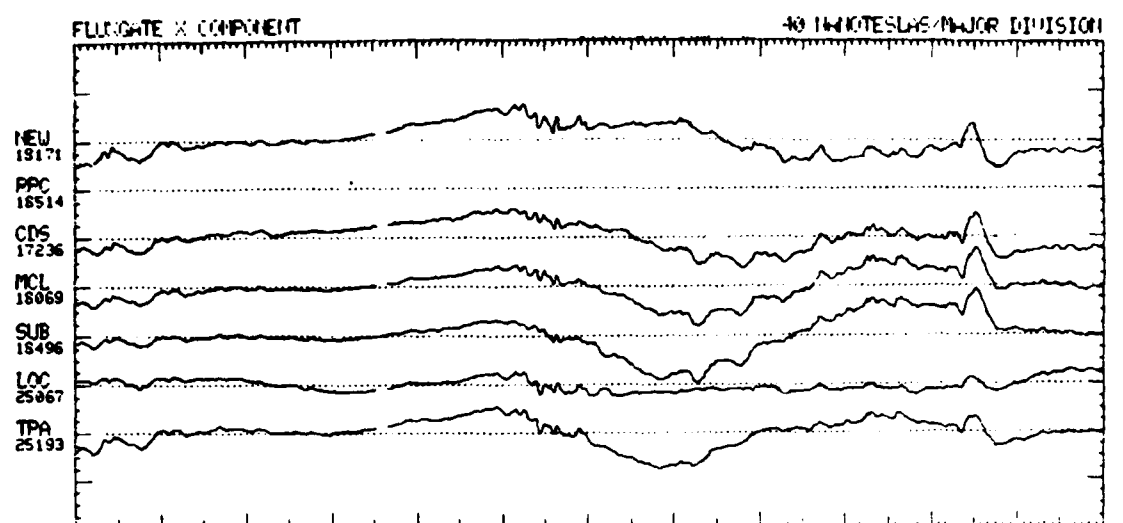


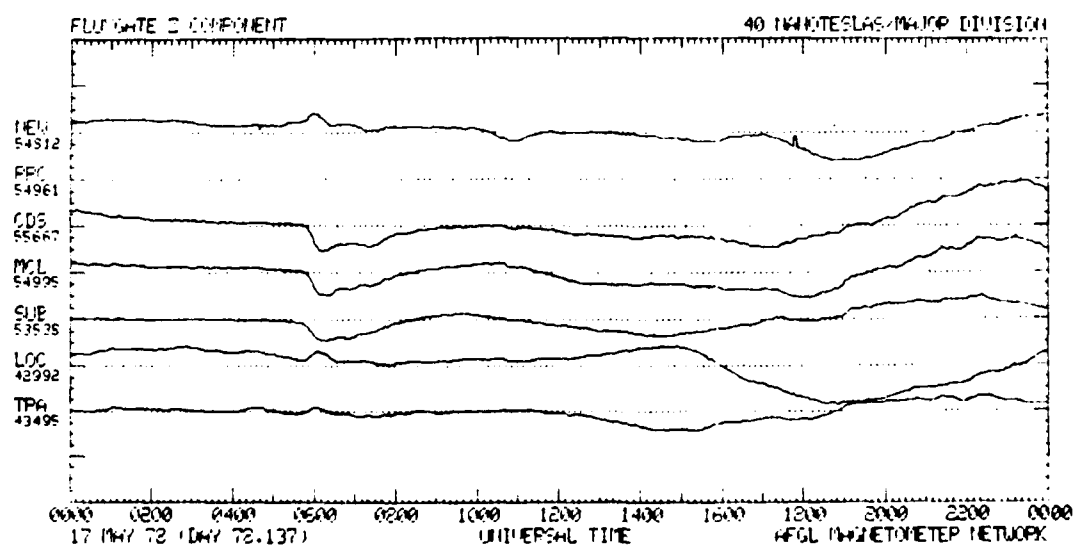
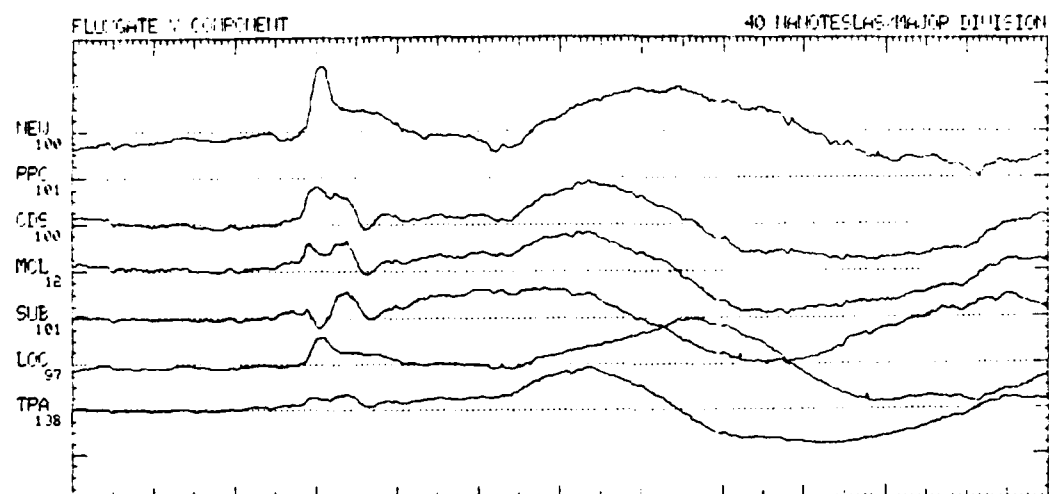
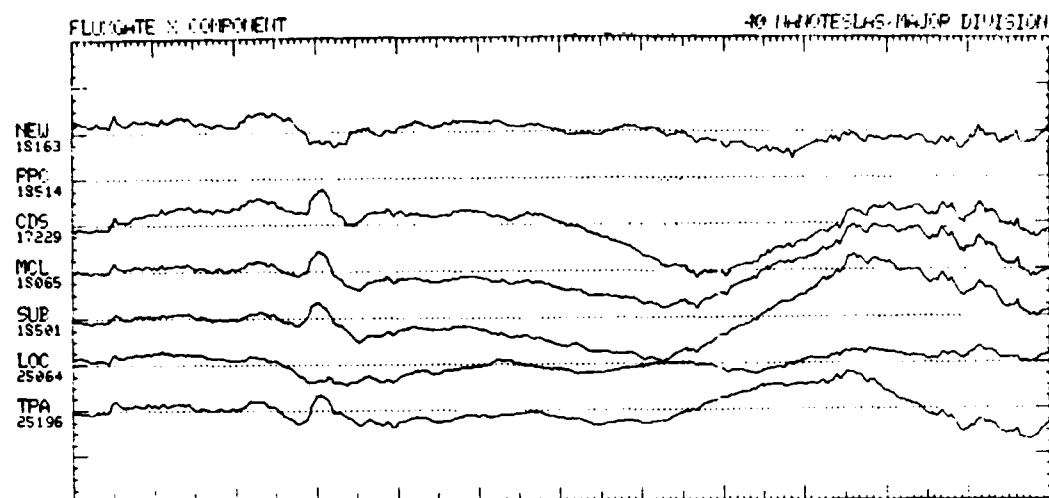


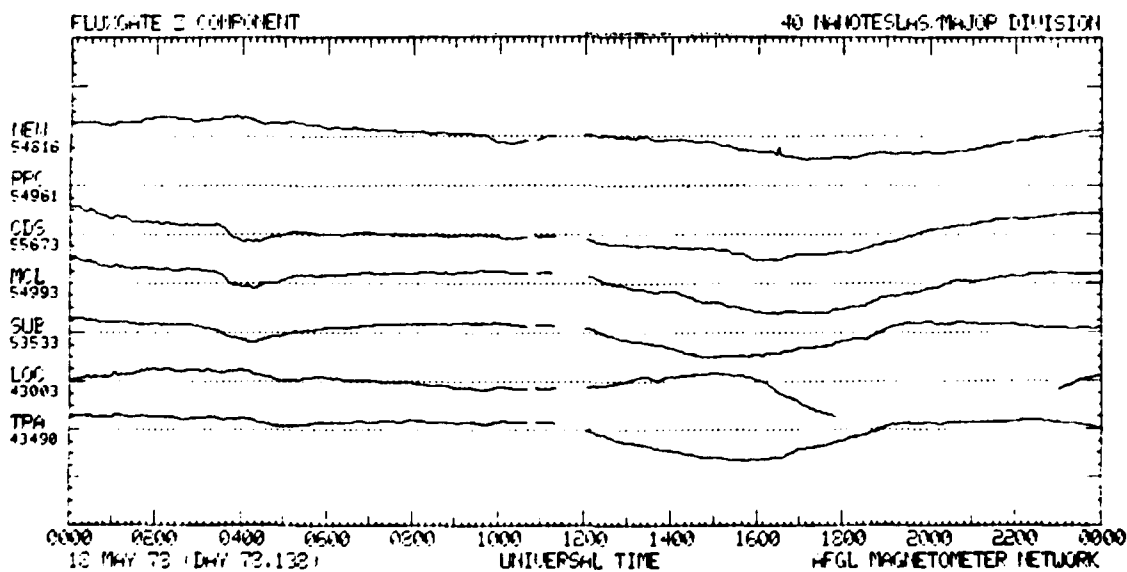
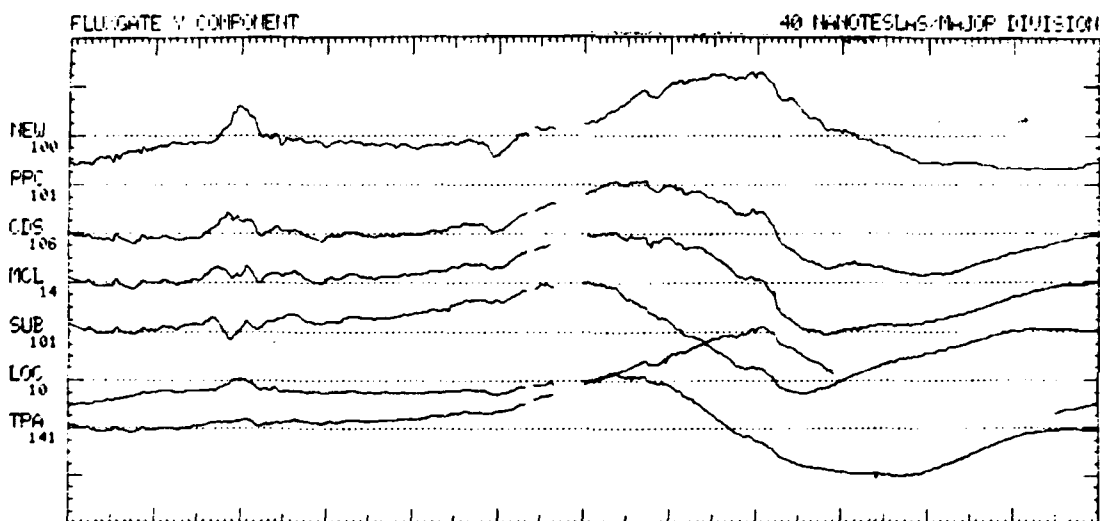
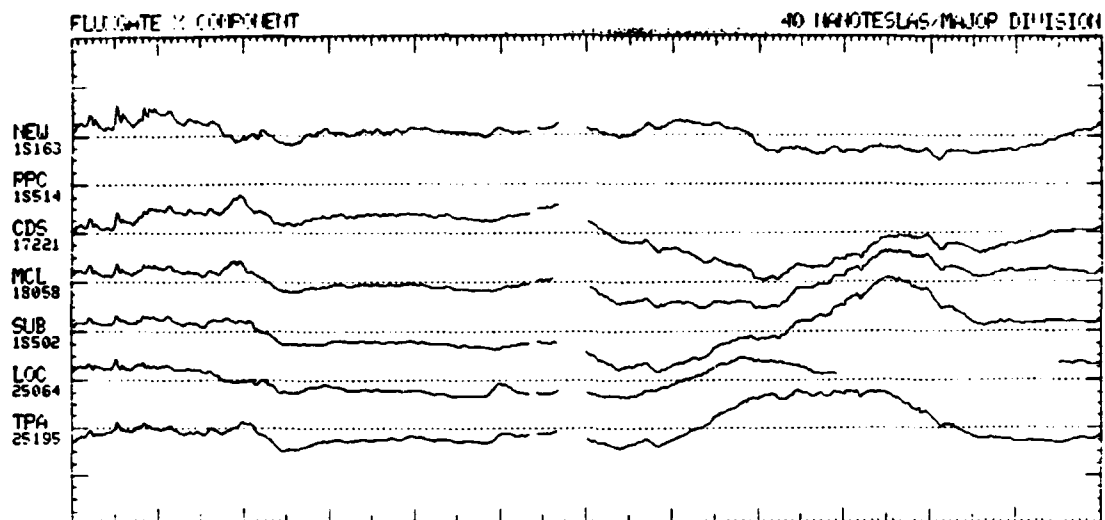


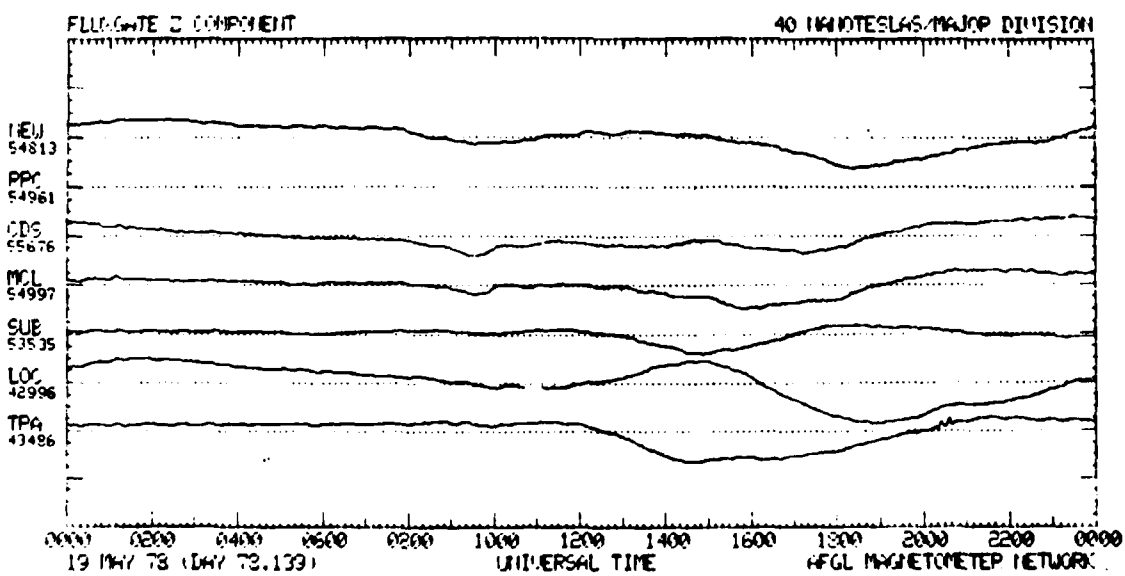
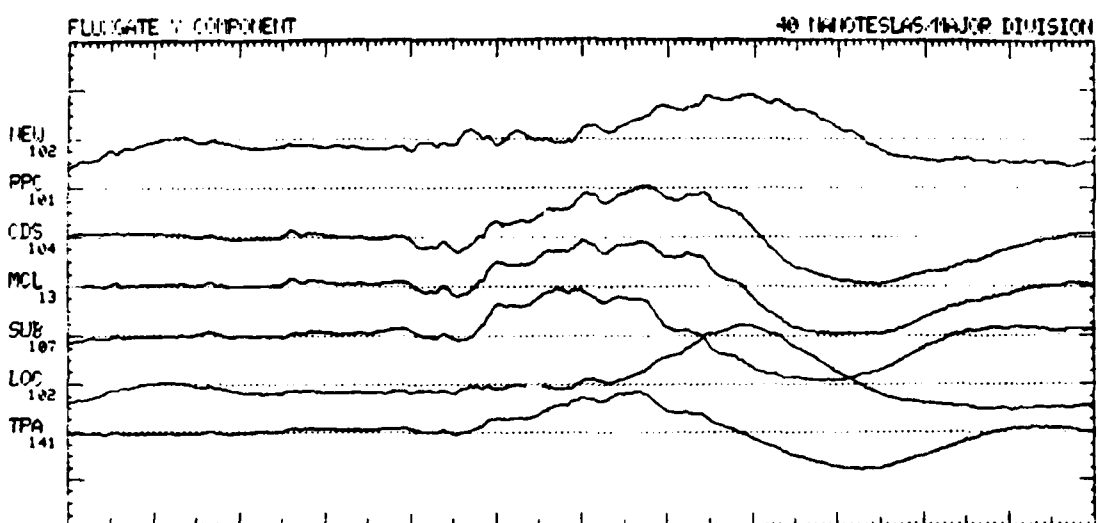
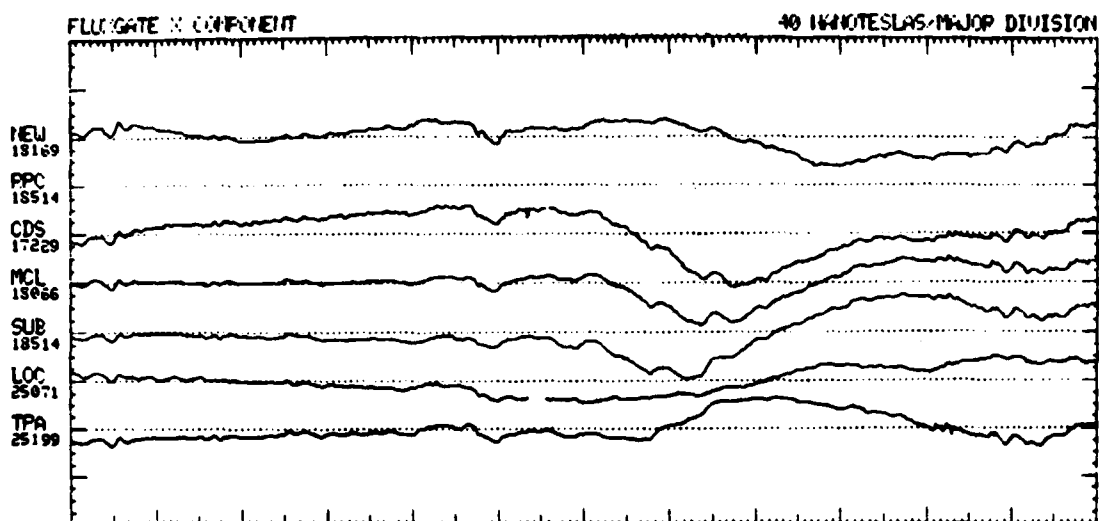


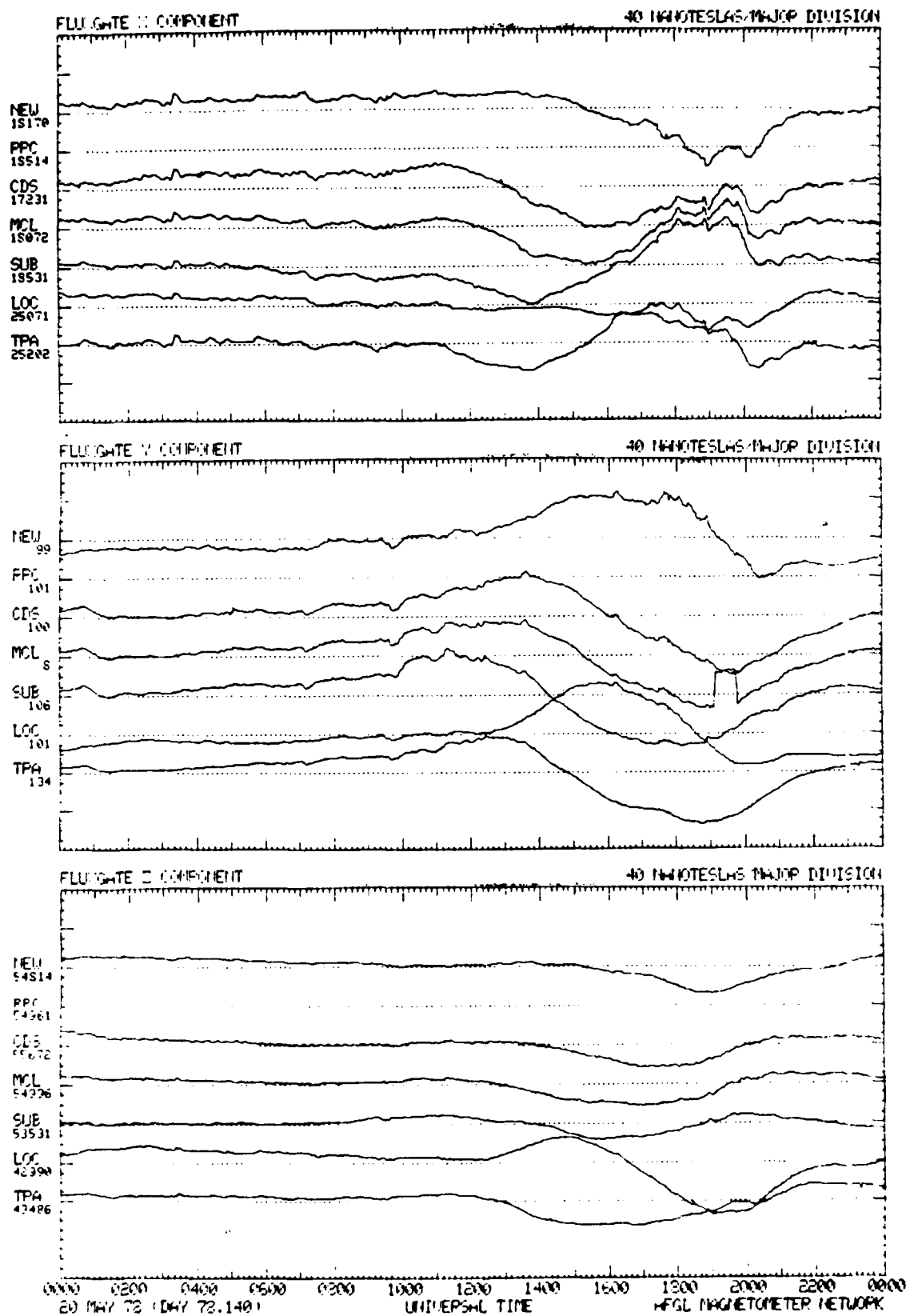


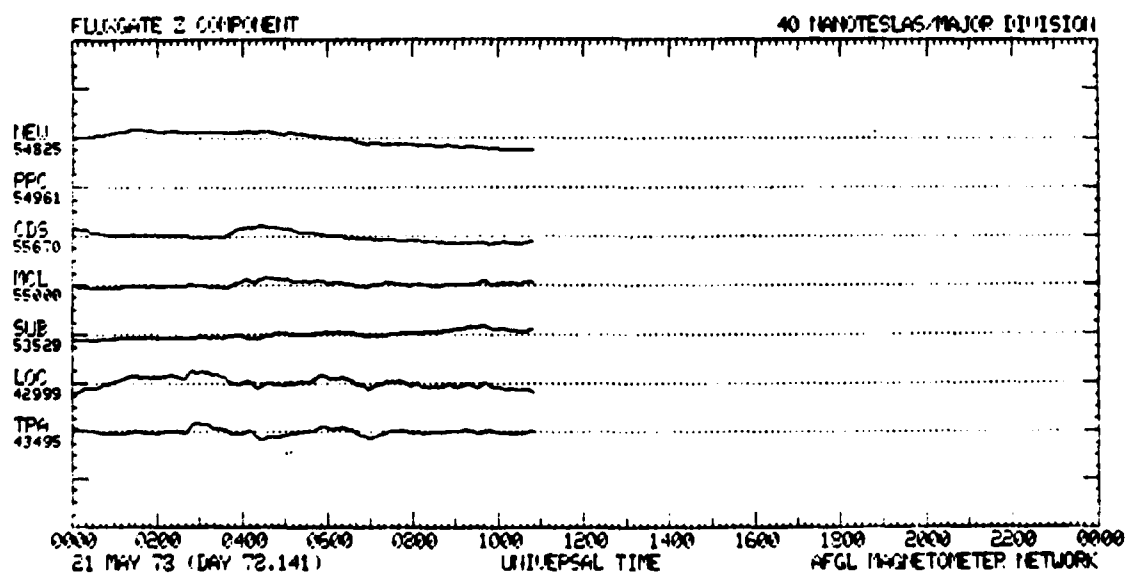
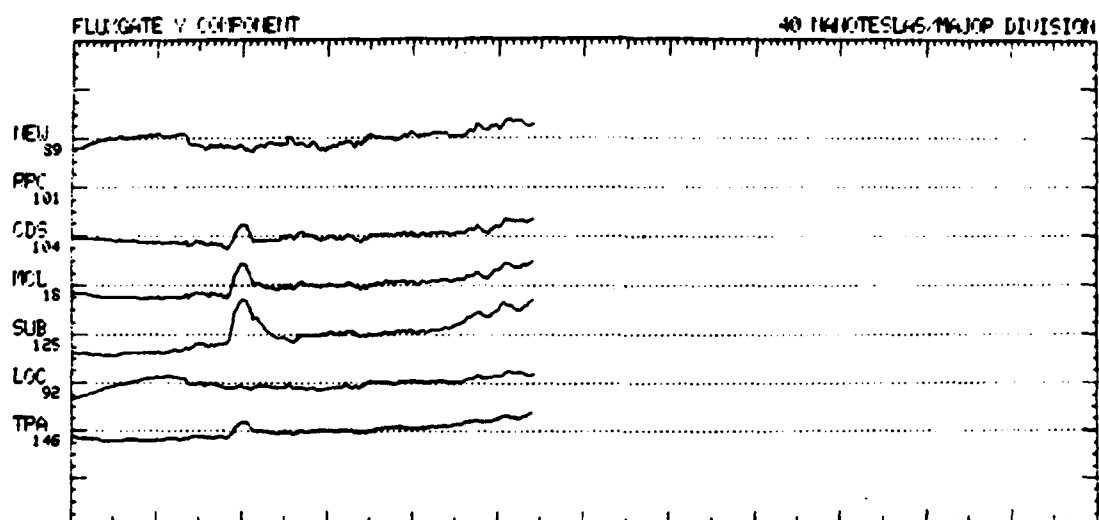
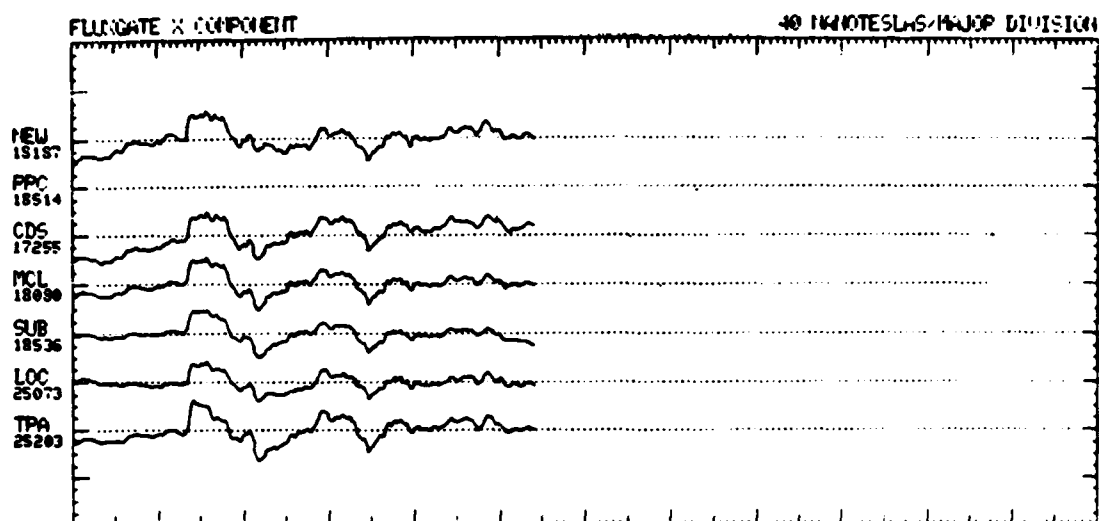


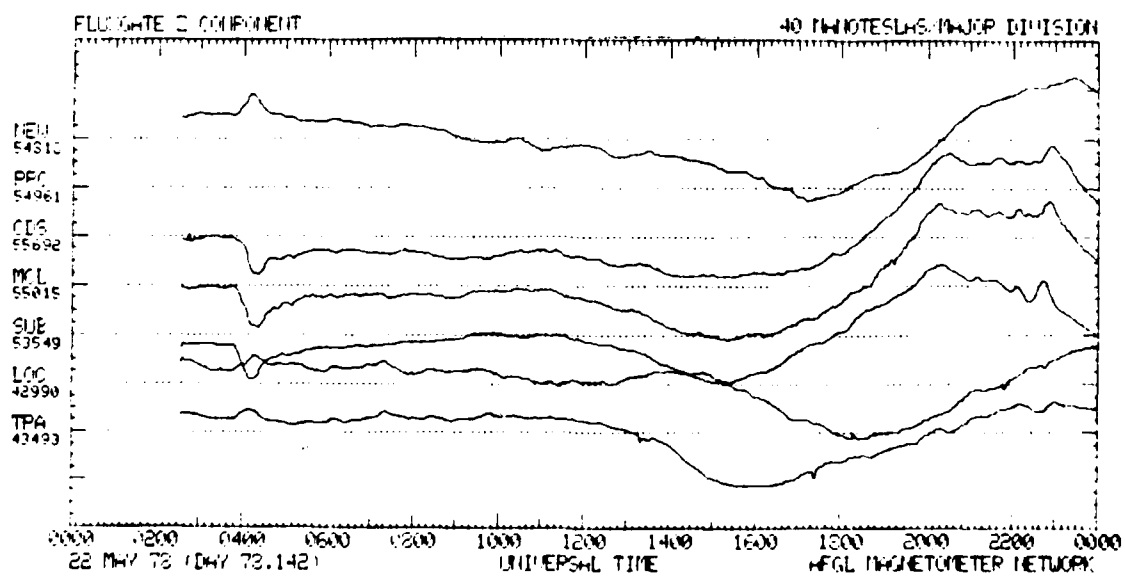
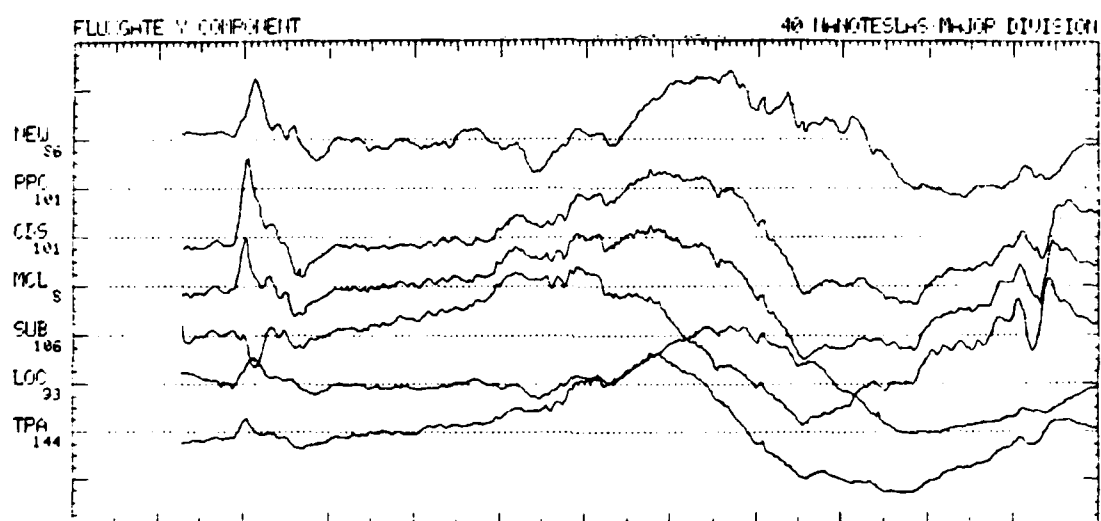
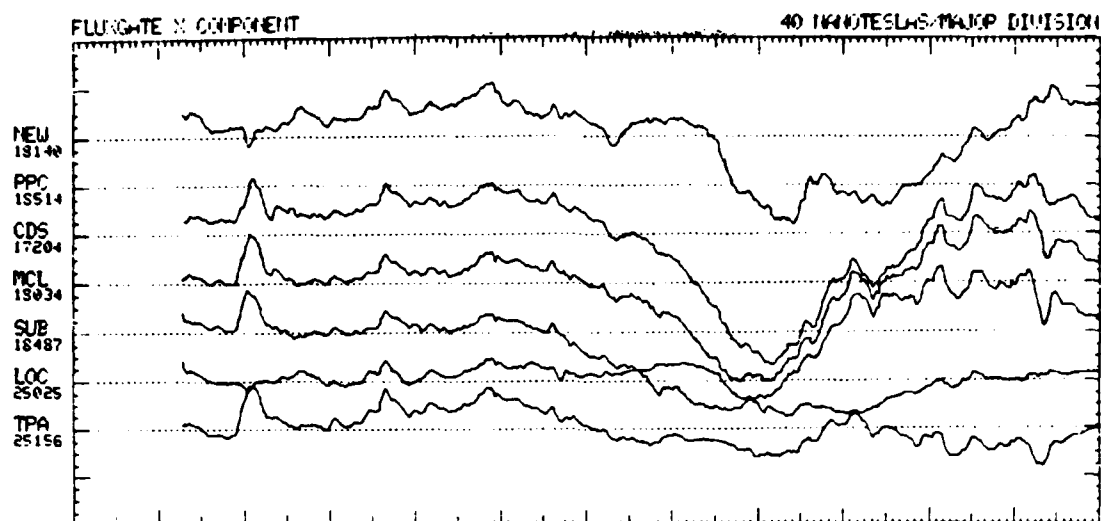


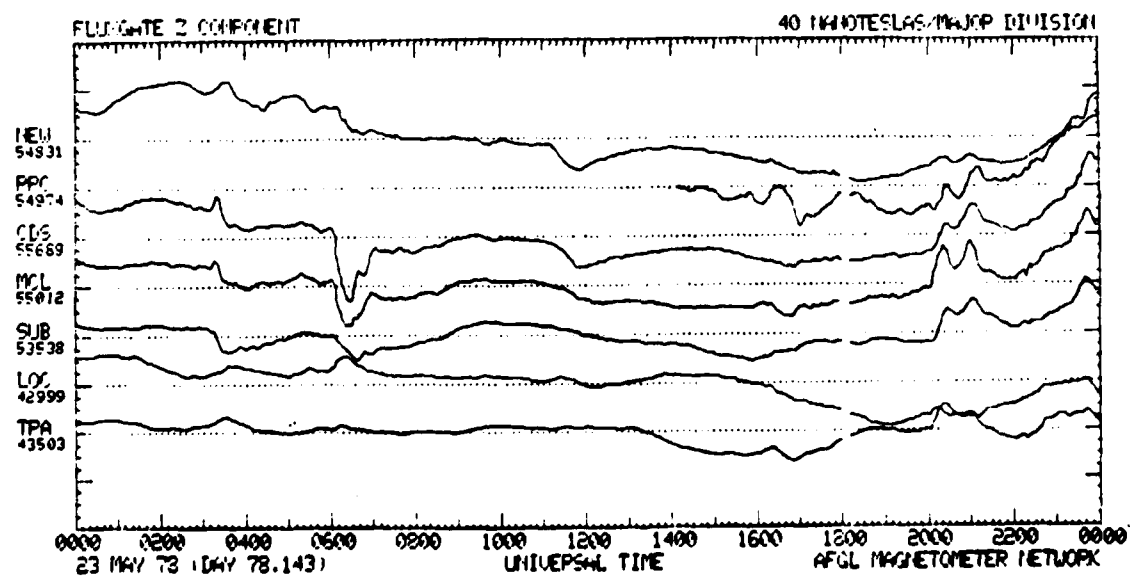
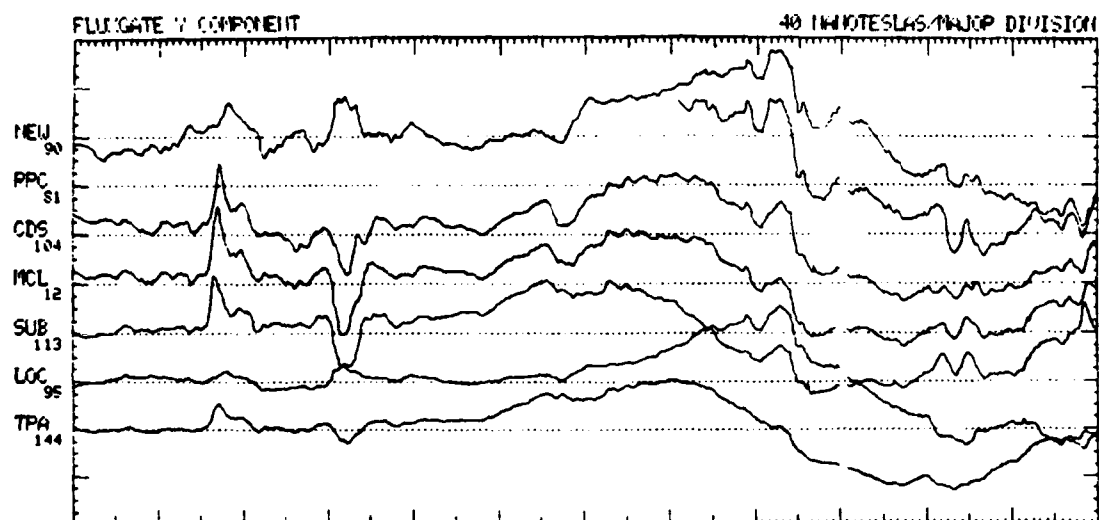
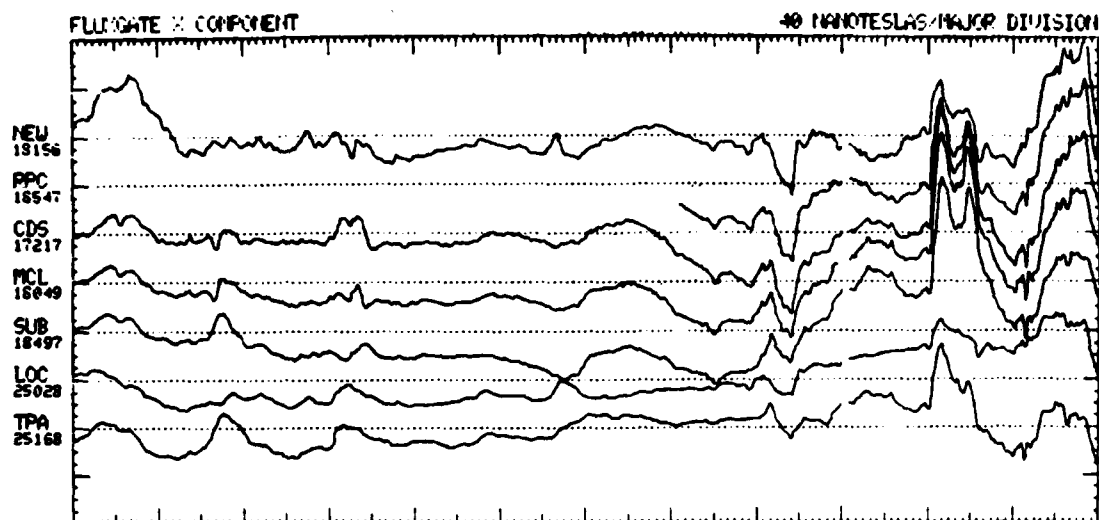


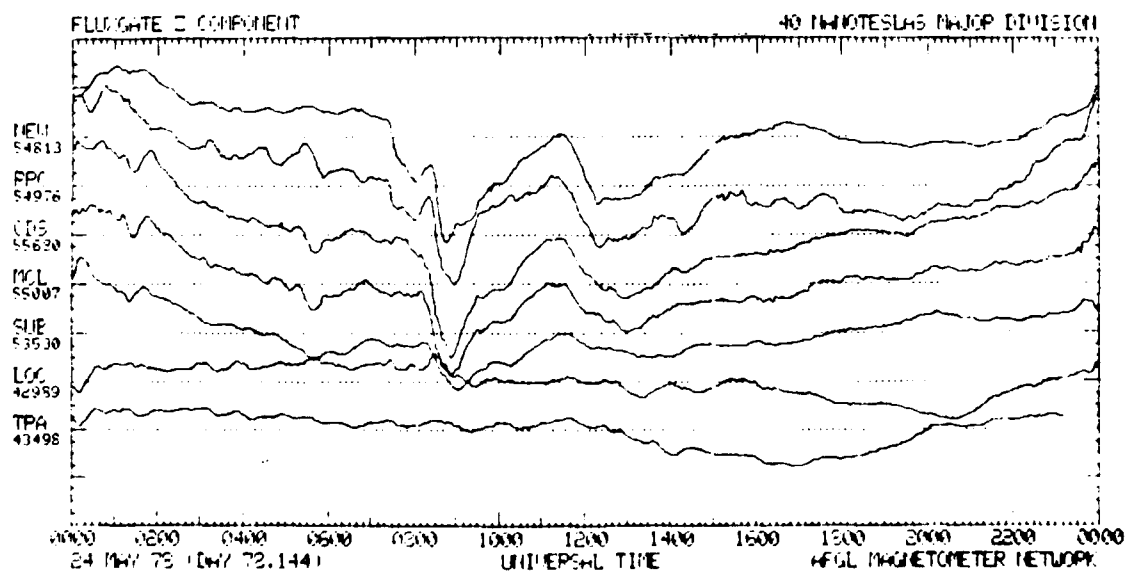
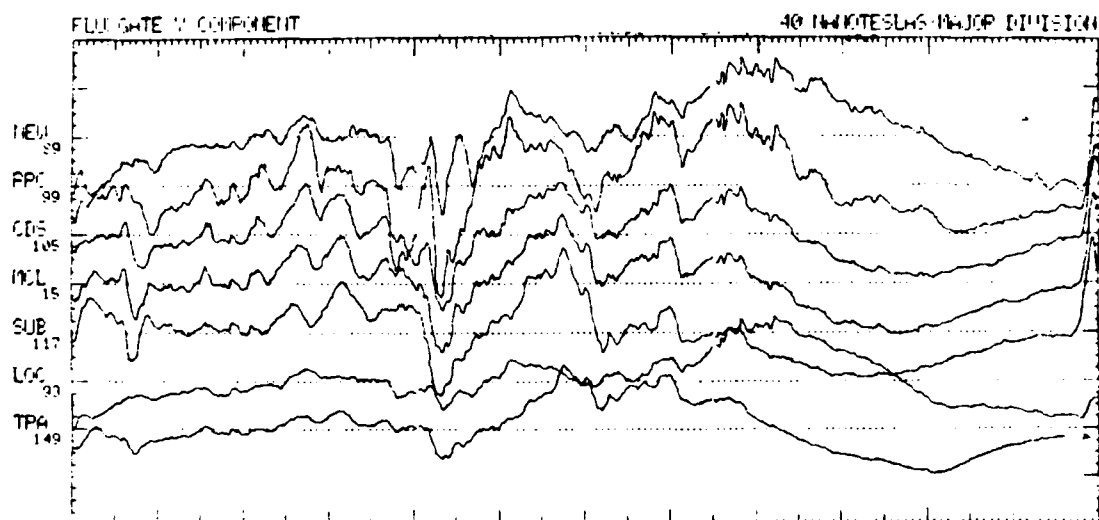
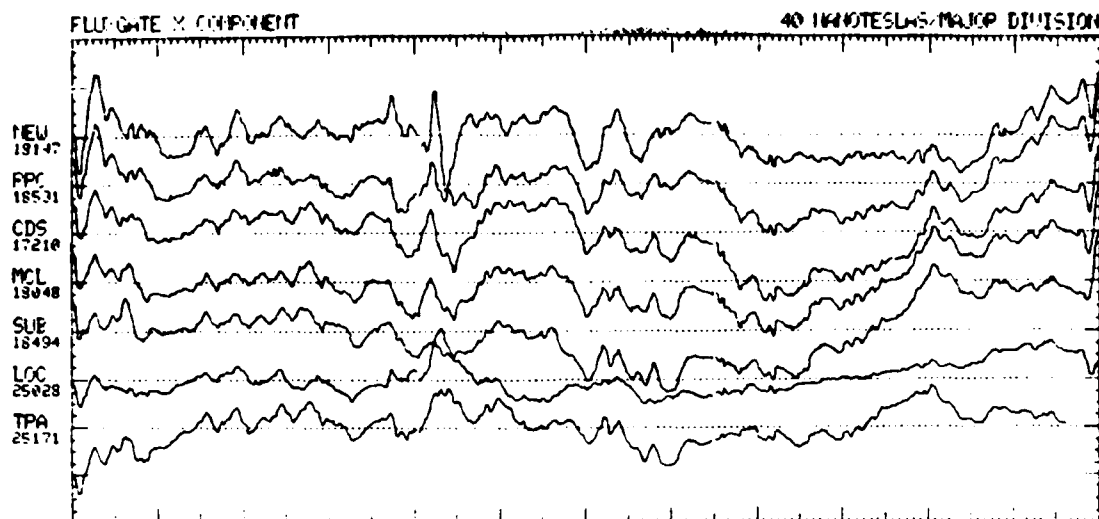


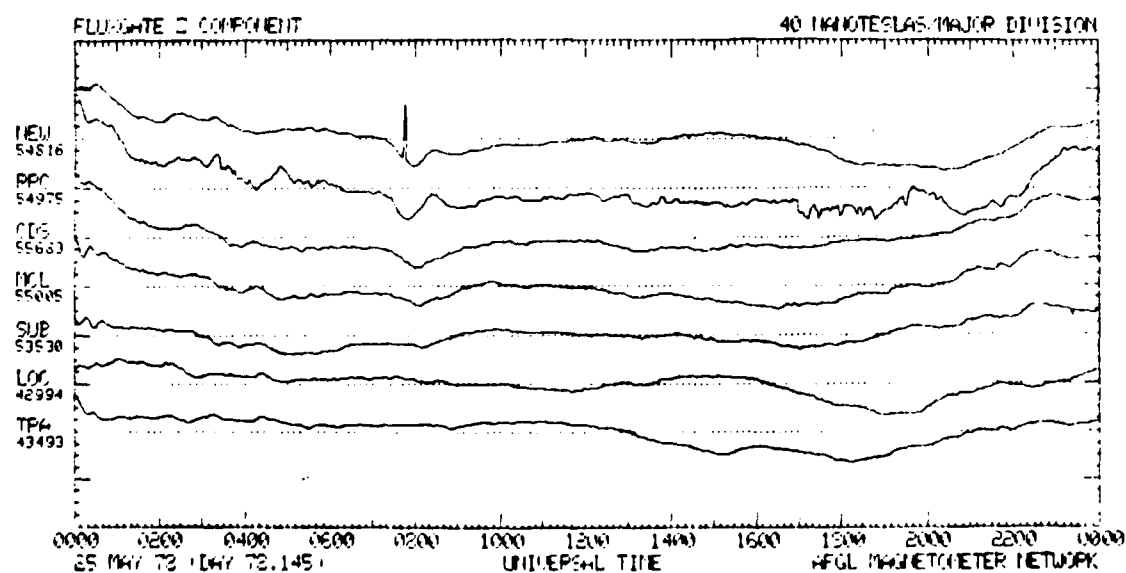
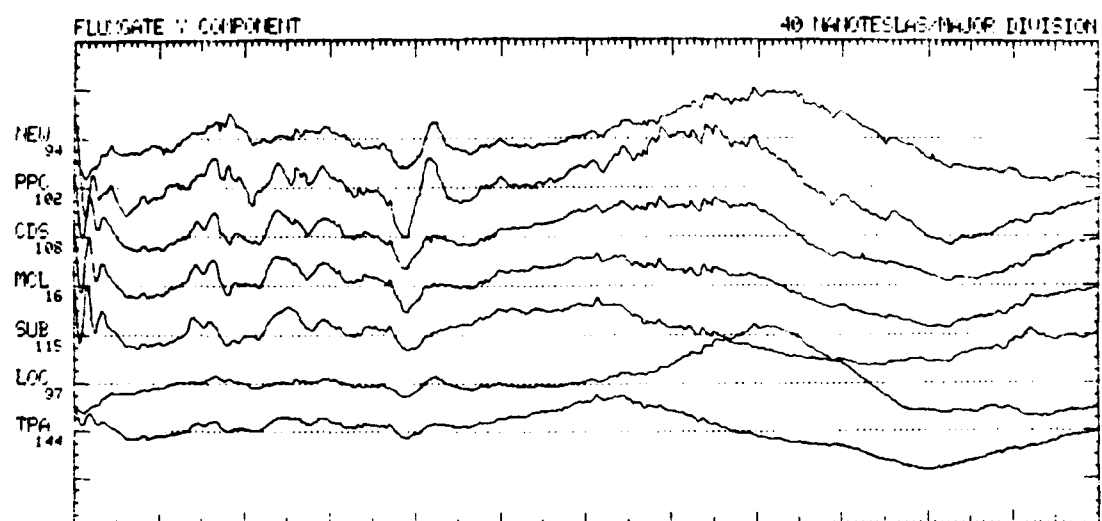
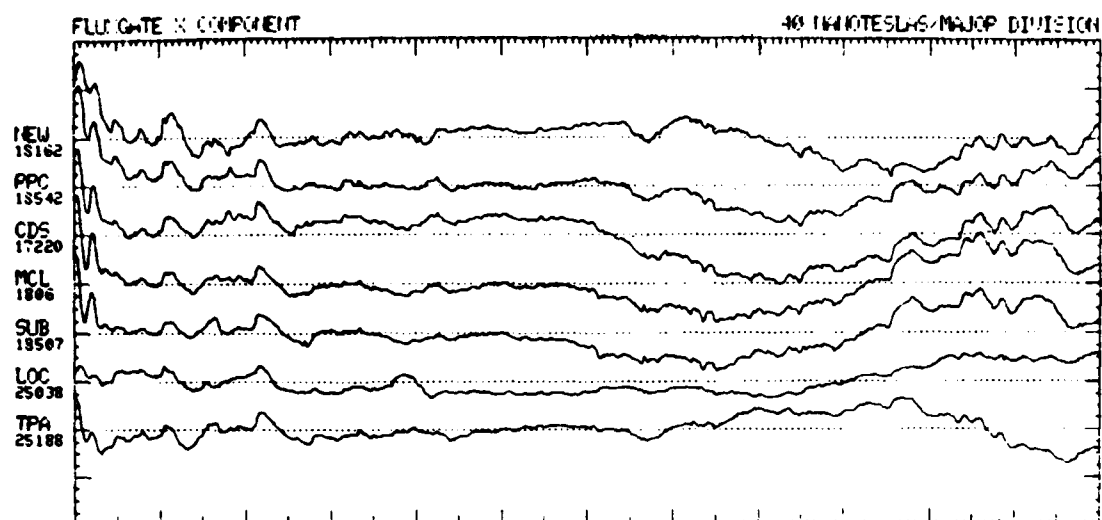




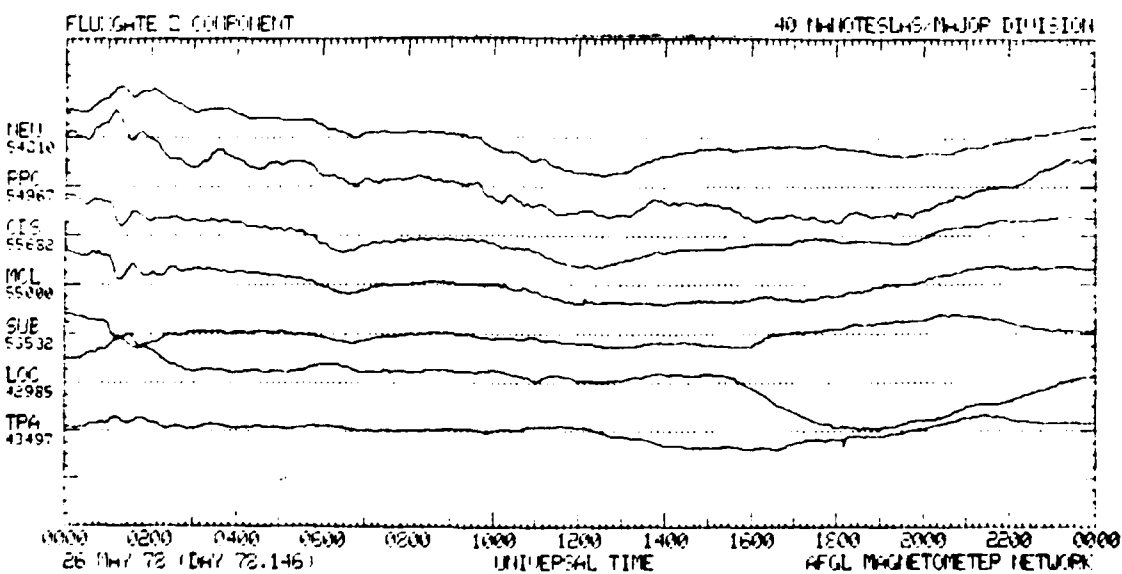
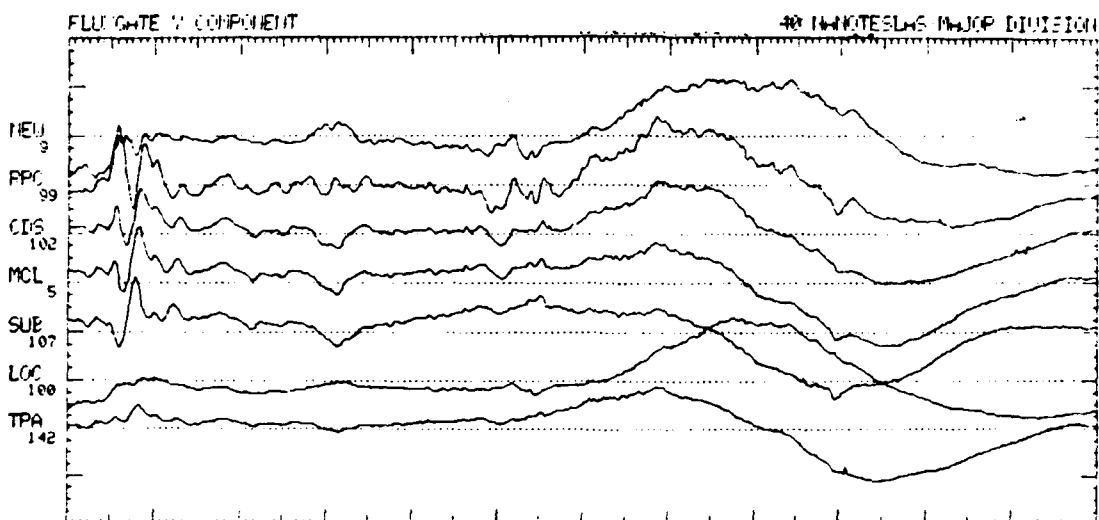
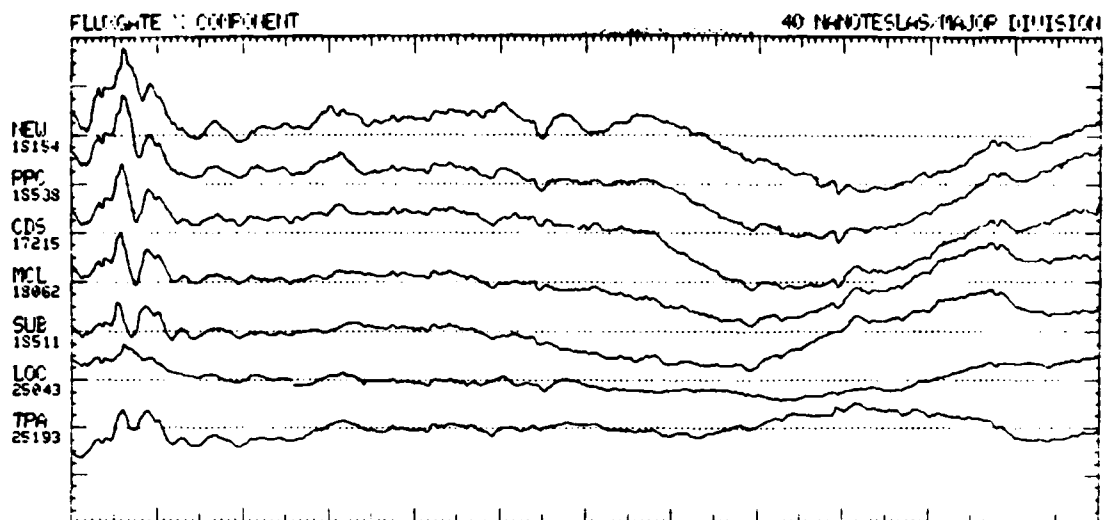


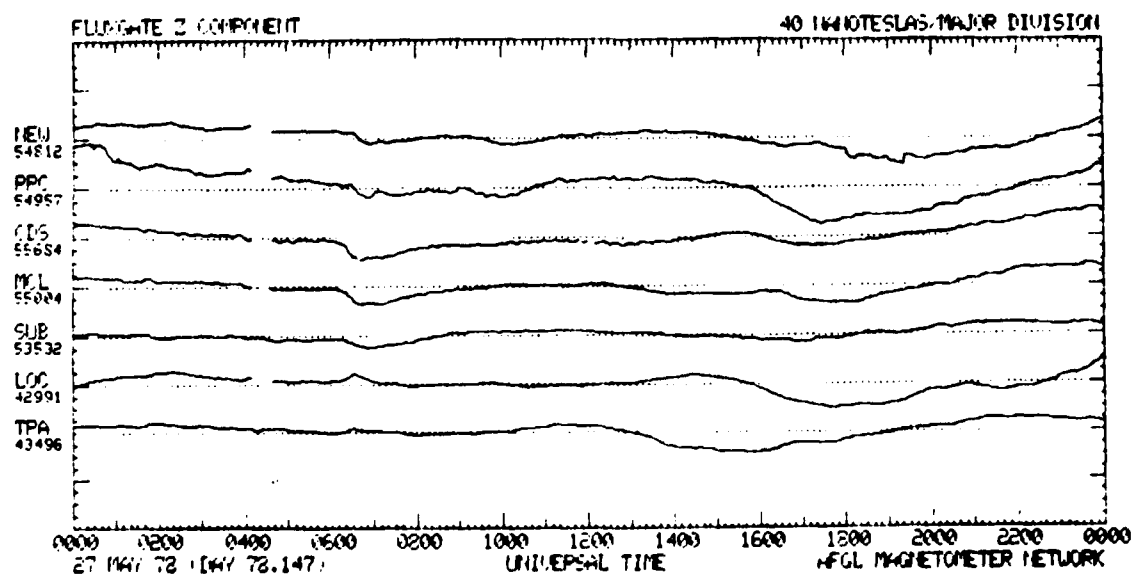
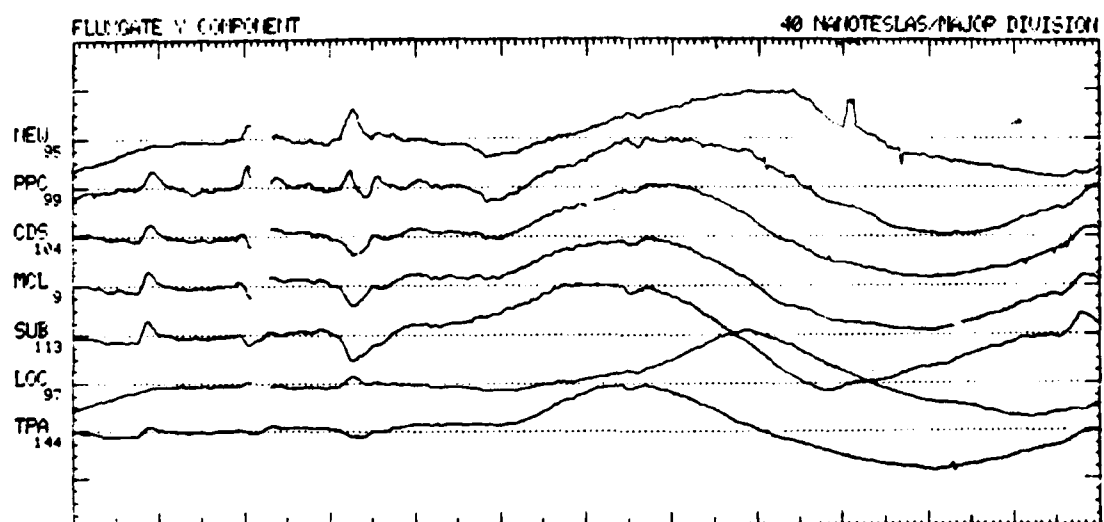
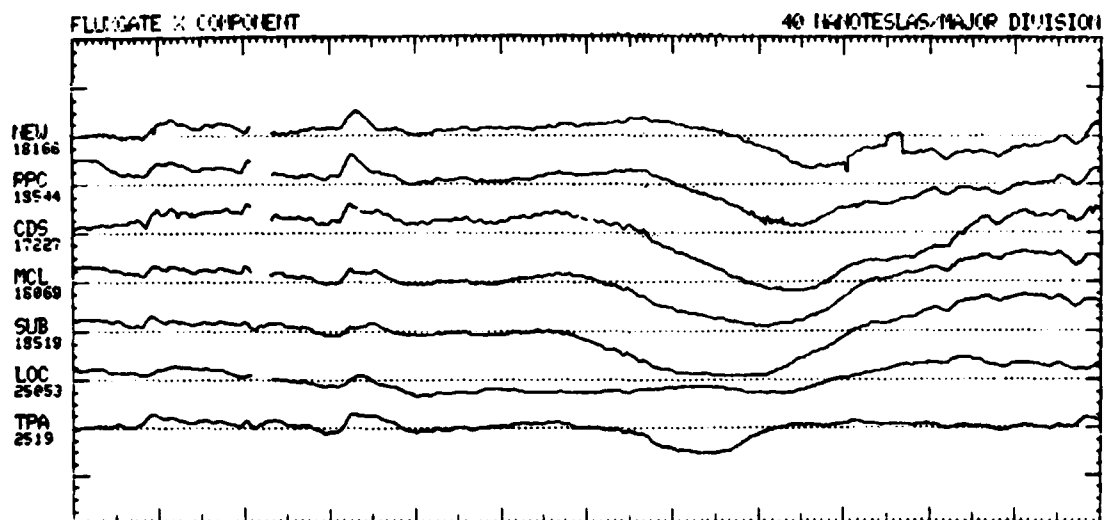


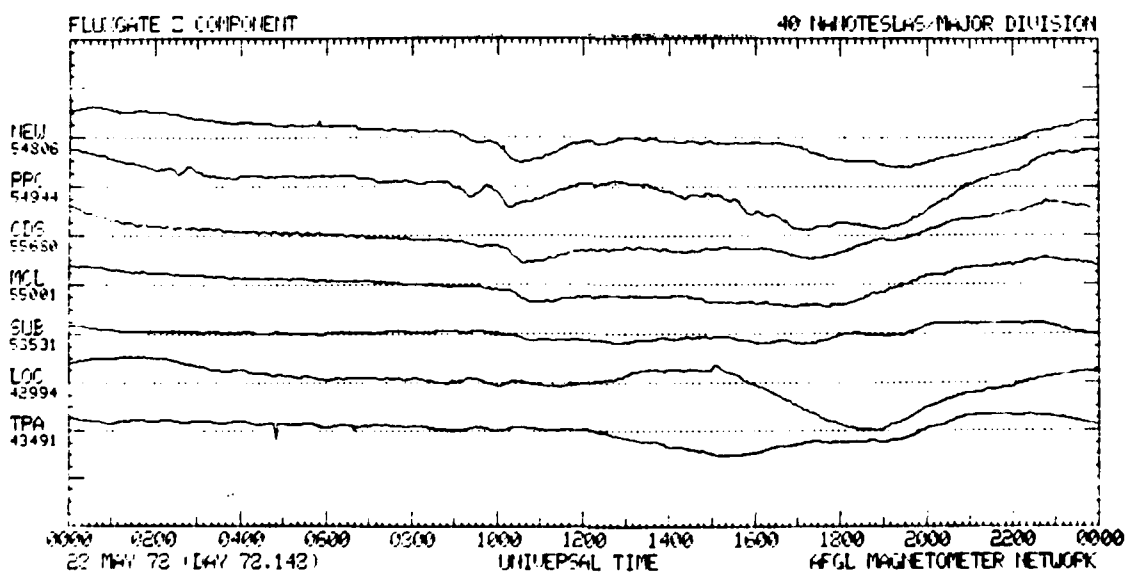
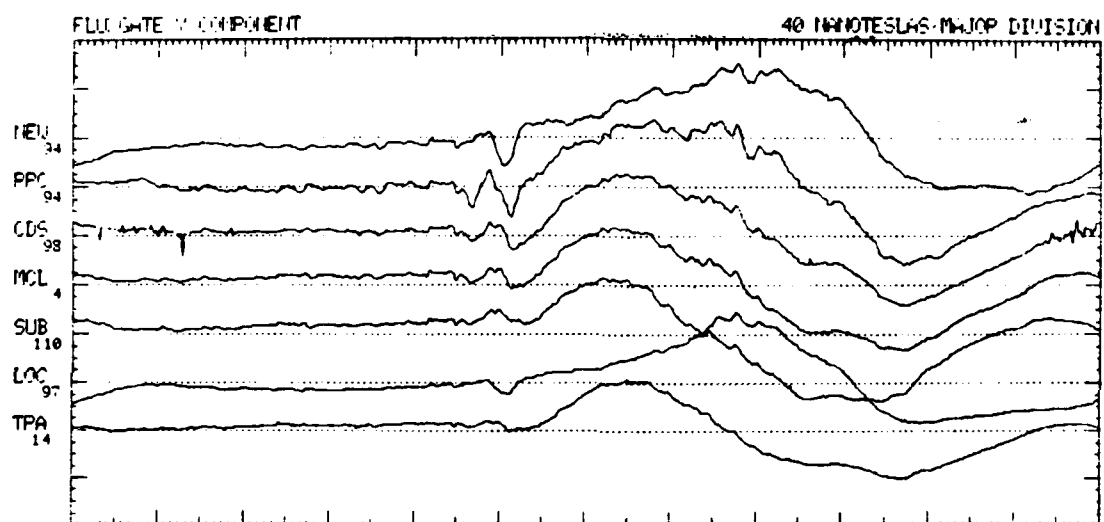
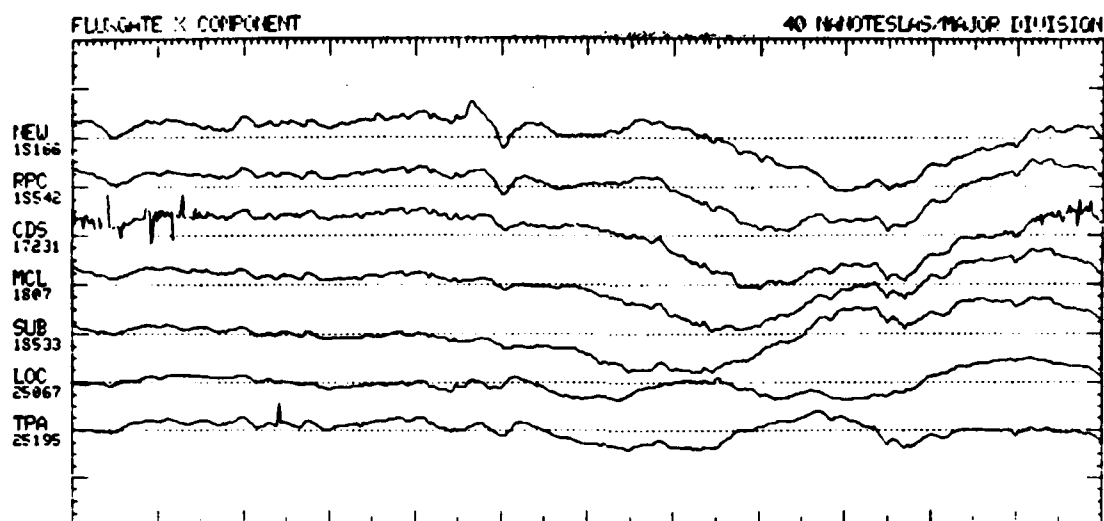


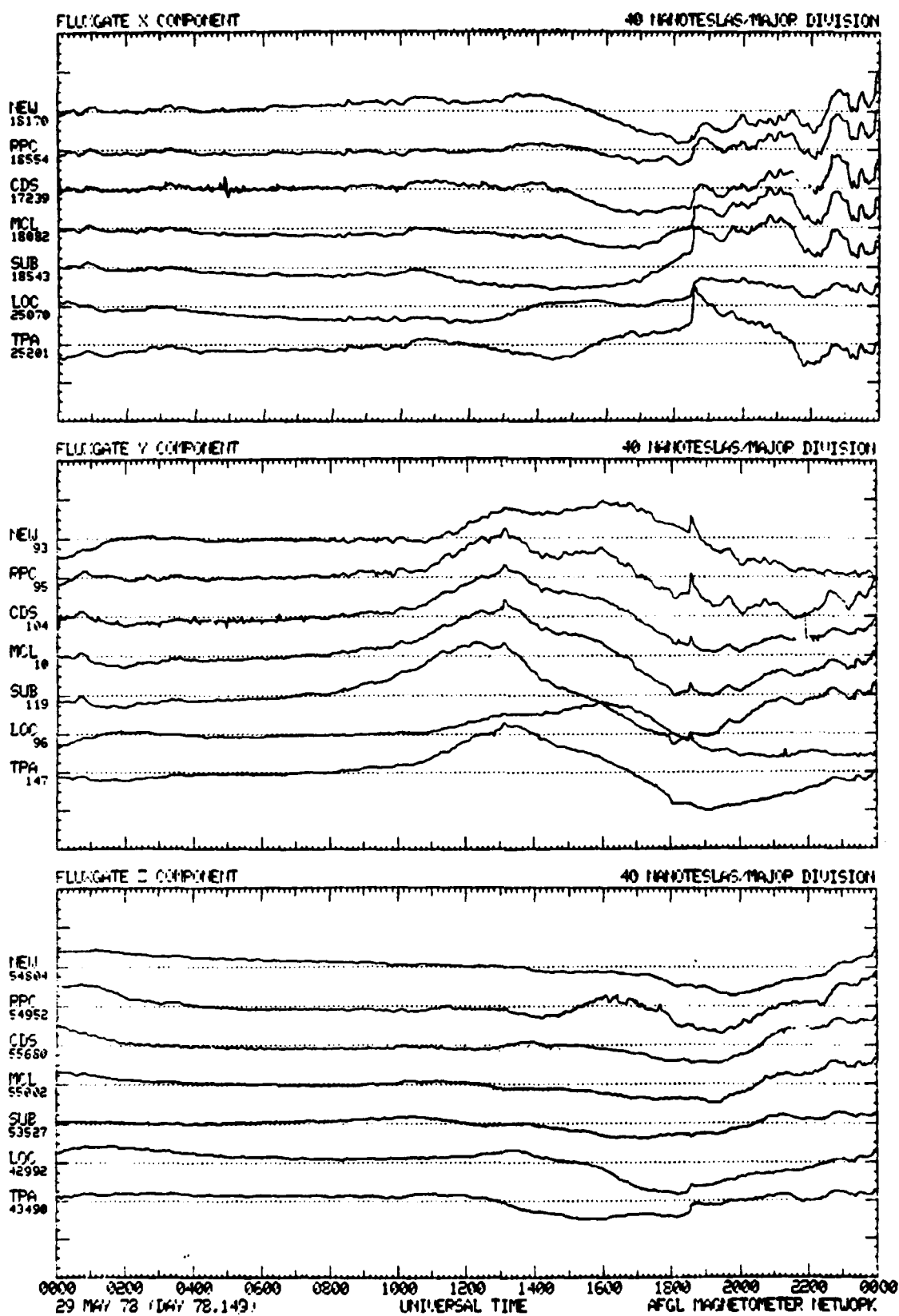


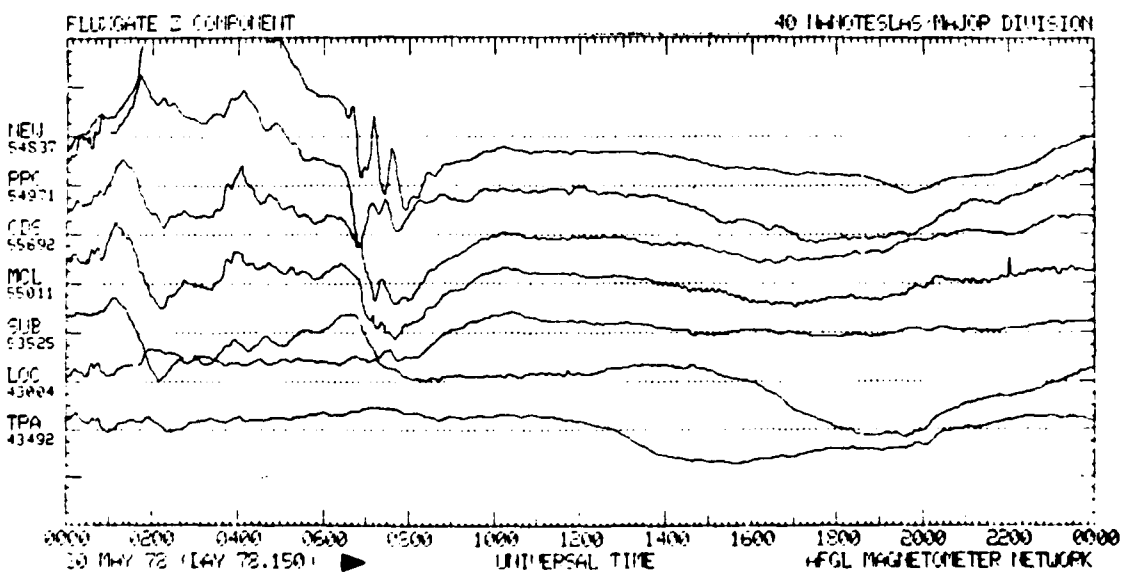
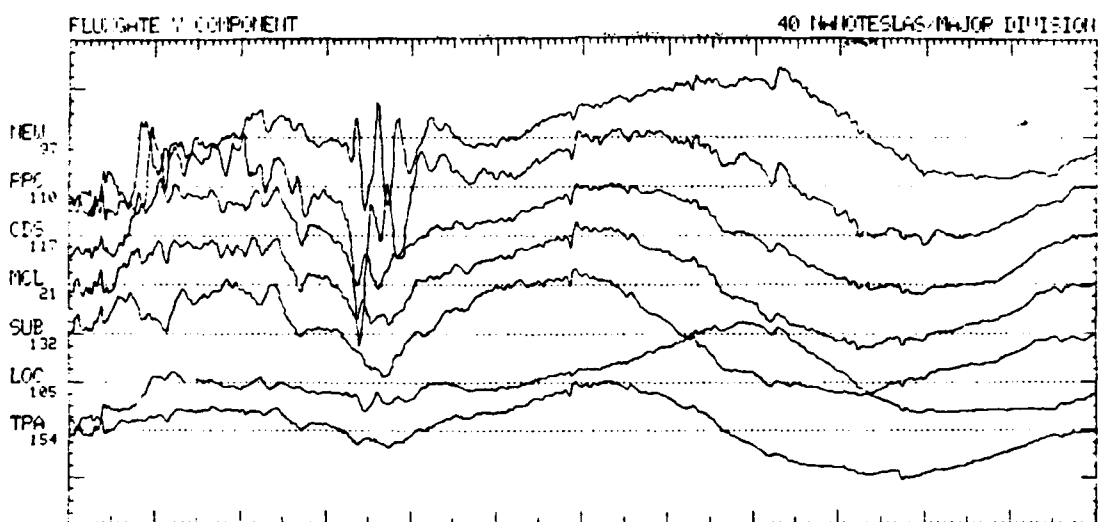
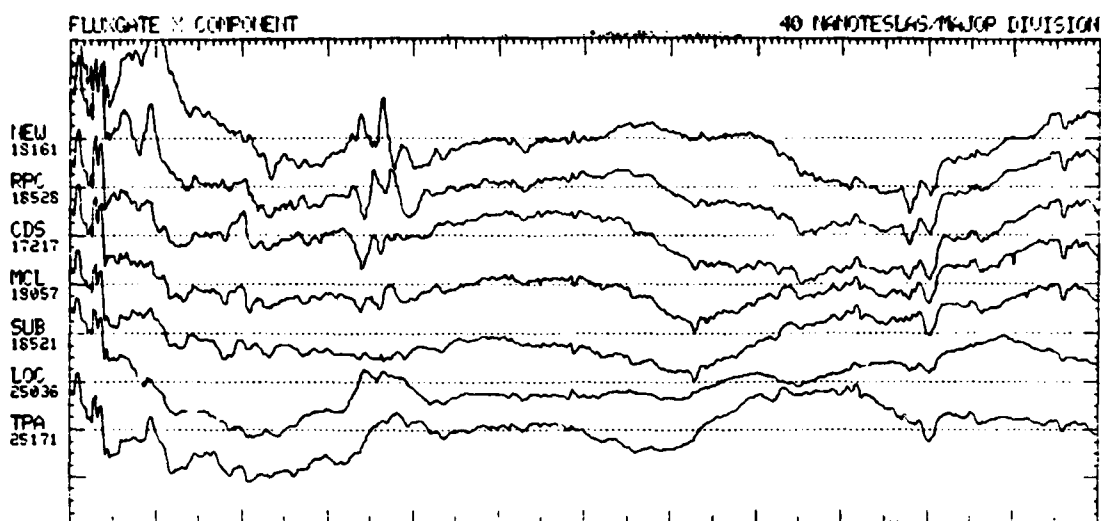
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
25 MAY 73 (147 73.145) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

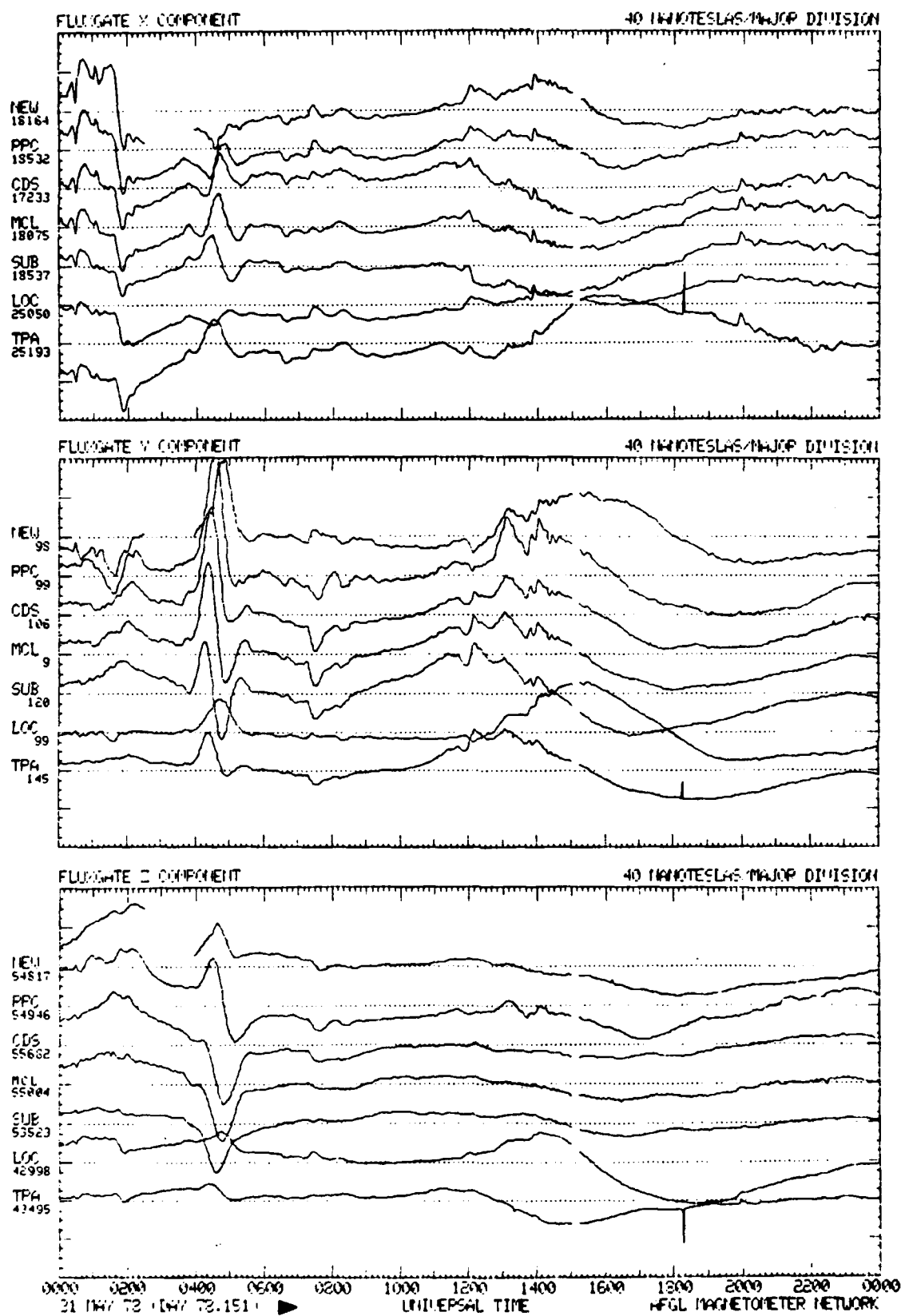


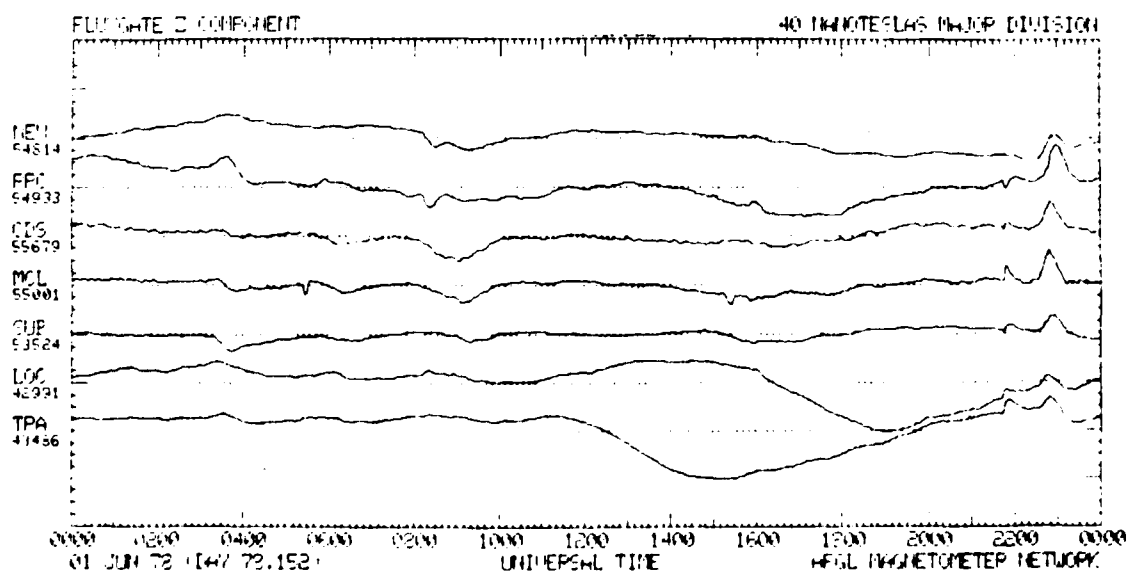
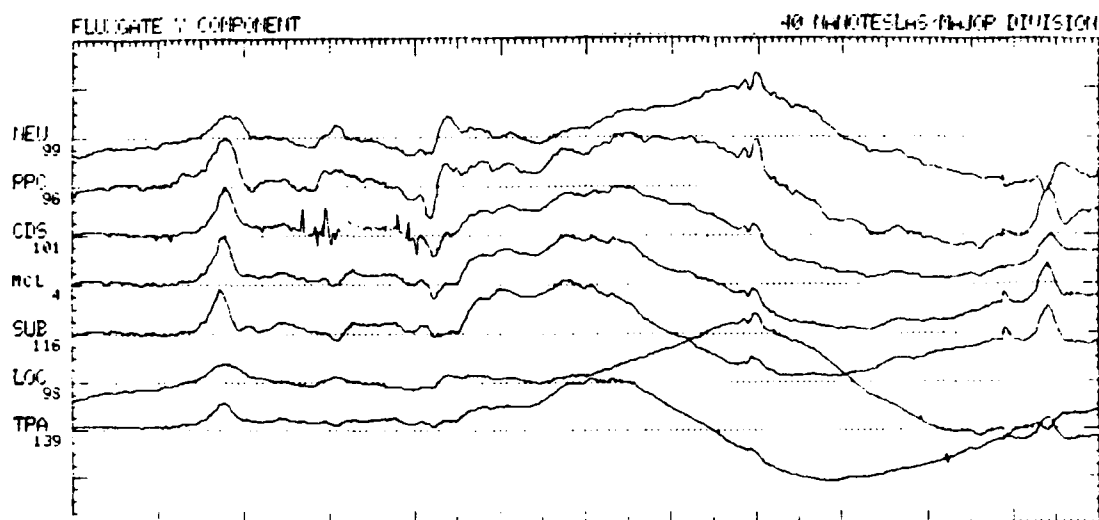
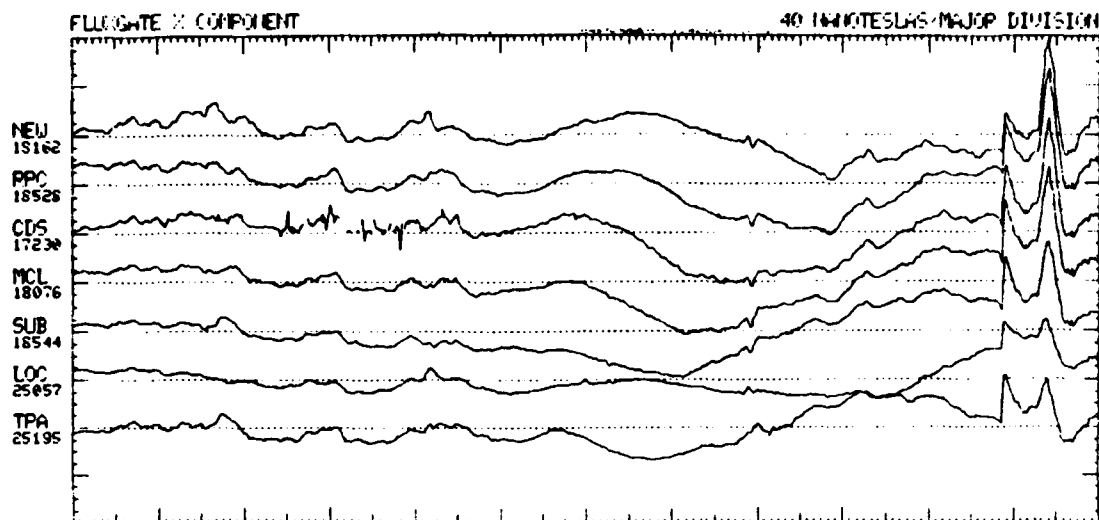








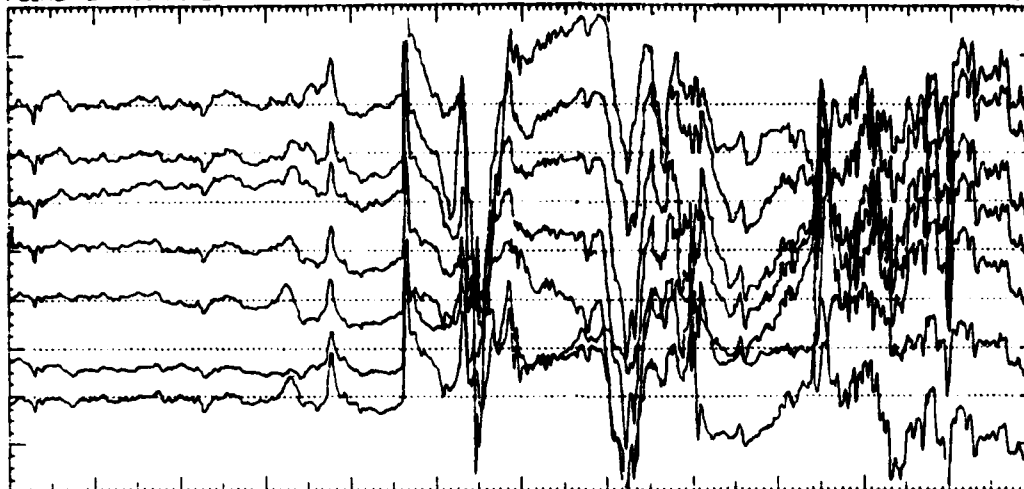




FLIGHTLINE X COMPONENT

40 INWOTESLAS/MAJOR DIVISION

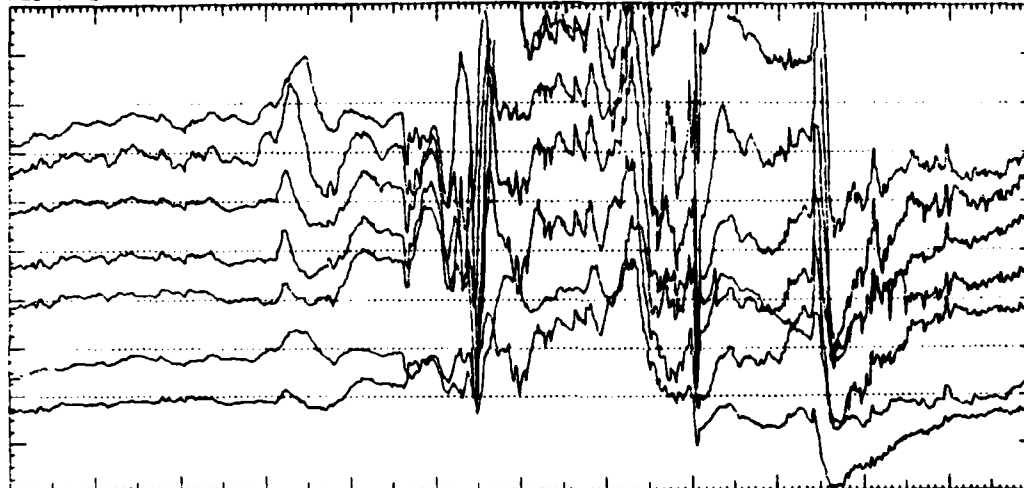
NEW
18176
RPC
1554
CDS
17243
MCL
18055
SUB
18555
LOC
25082
TPA
25208



FLIGHTLINE Y COMPONENT

40 INWOTESLAS/MAJOR DIVISION

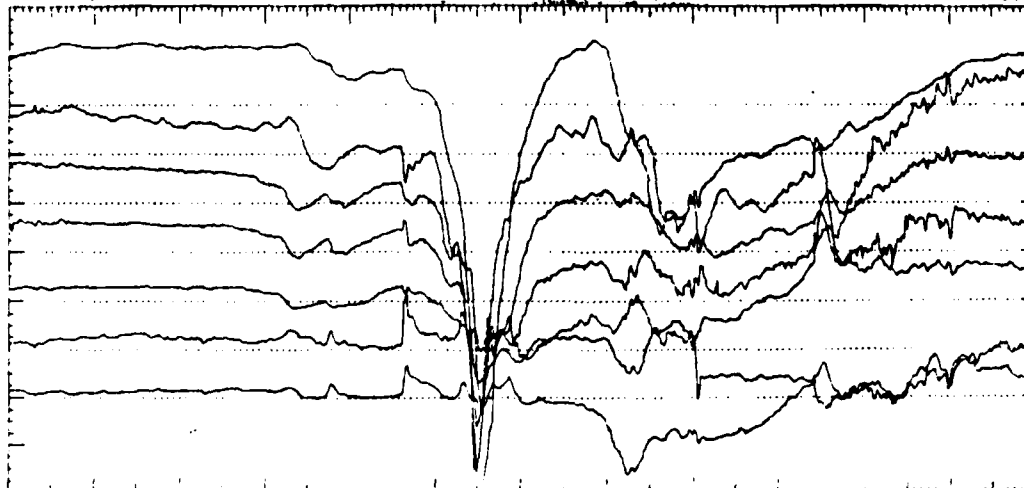
NEW
102
RPC
96
CDS
93
MCL
9
SUB
115
LOC
101
TPA
146



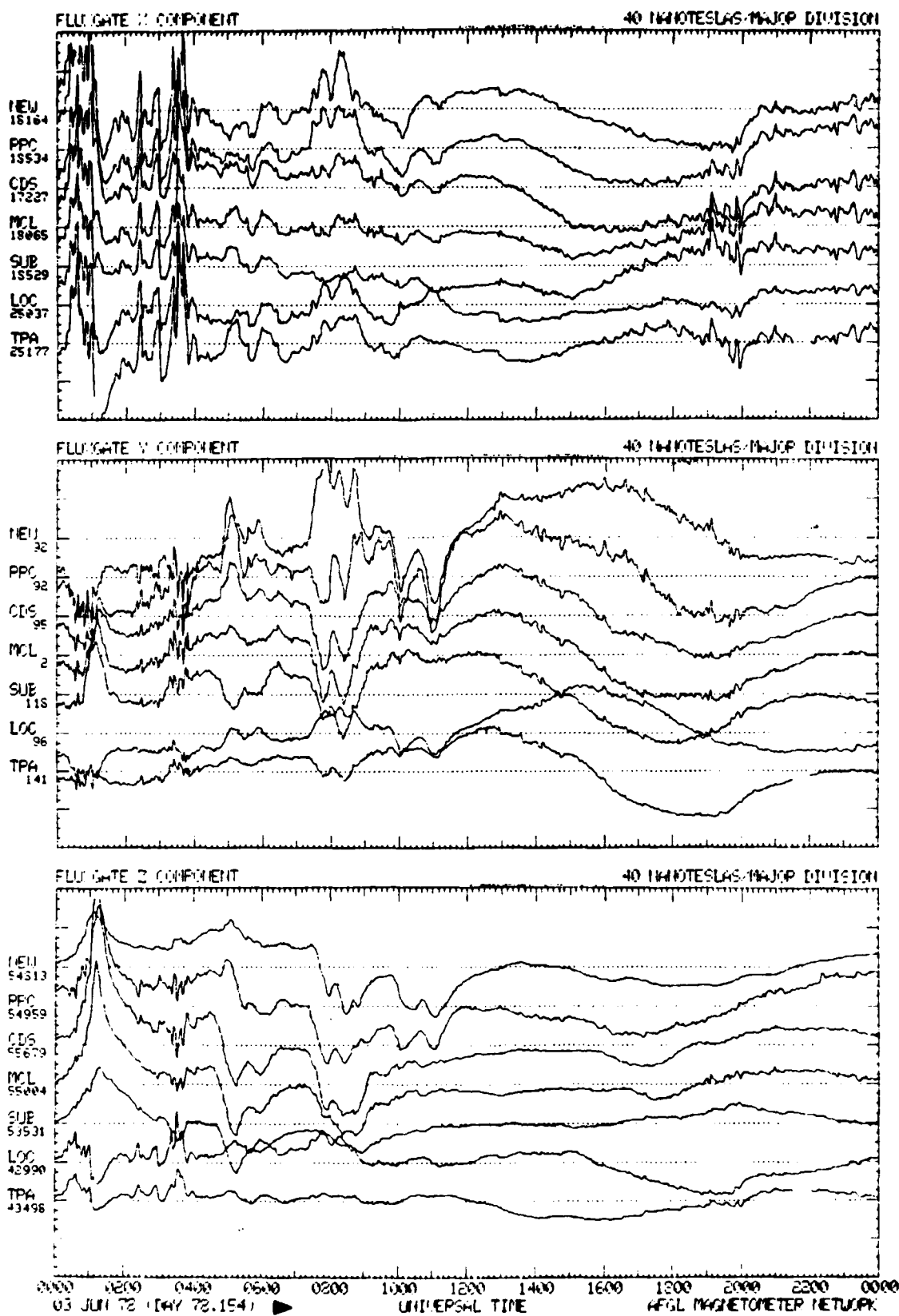
FLIGHTLINE Z COMPONENT

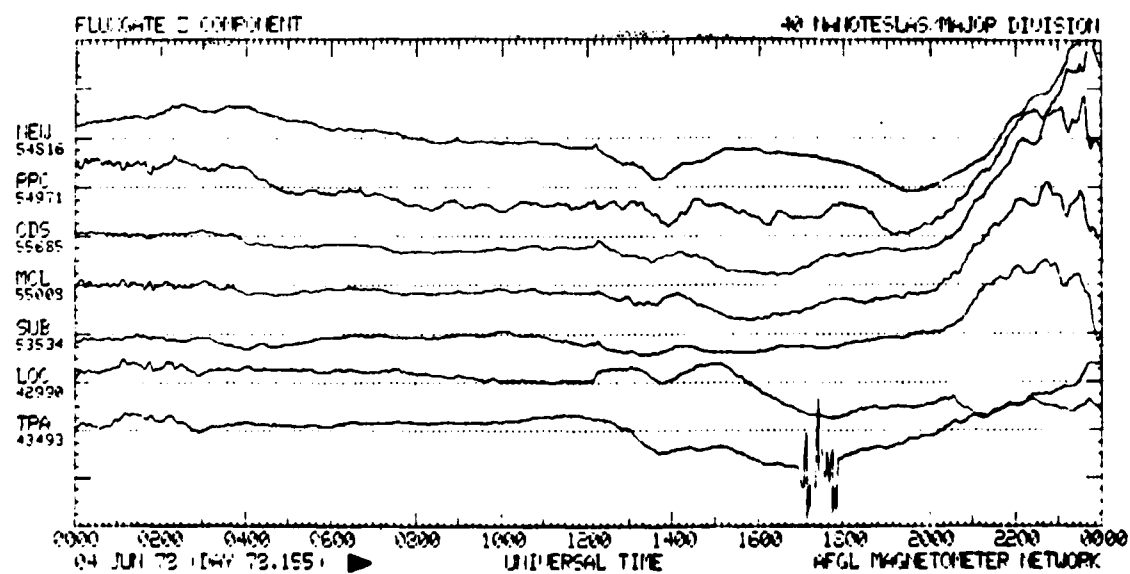
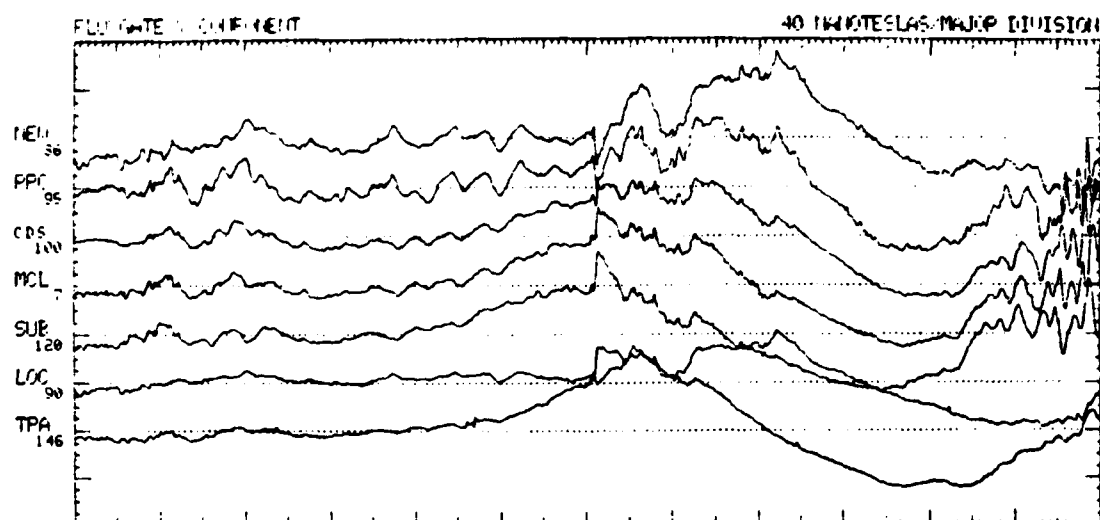
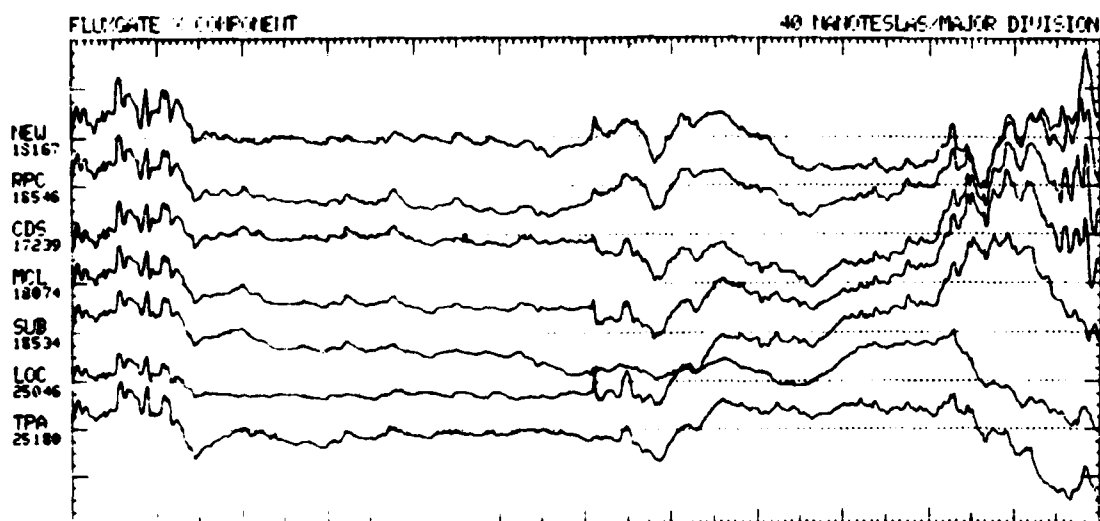
40 INWOTESLAS/MAJOR DIVISION

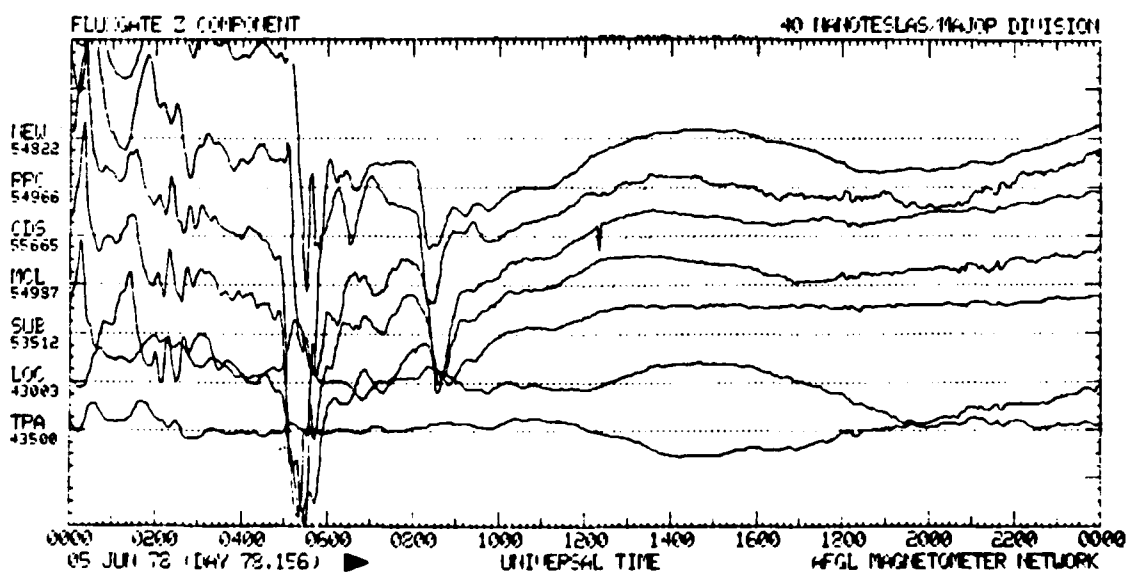
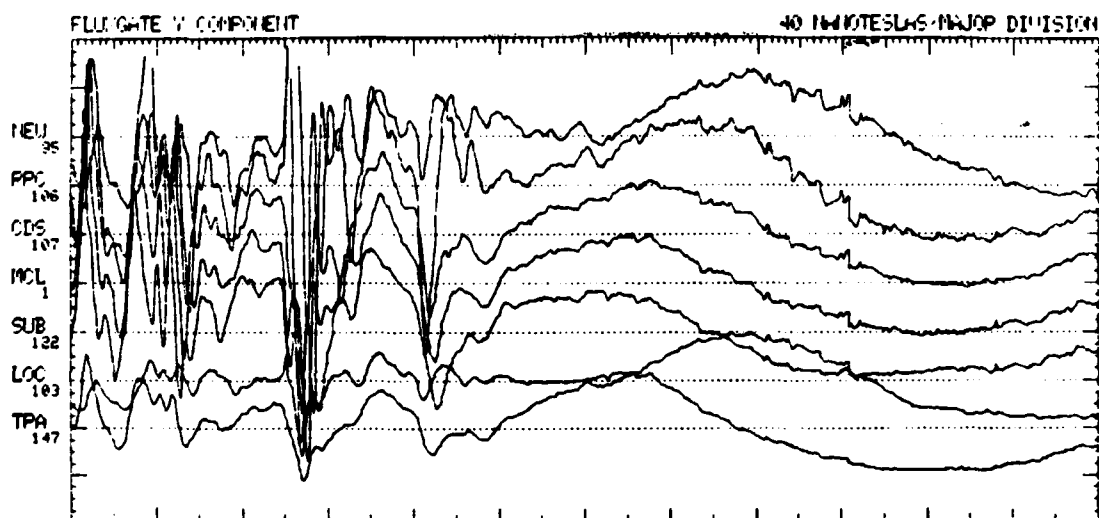
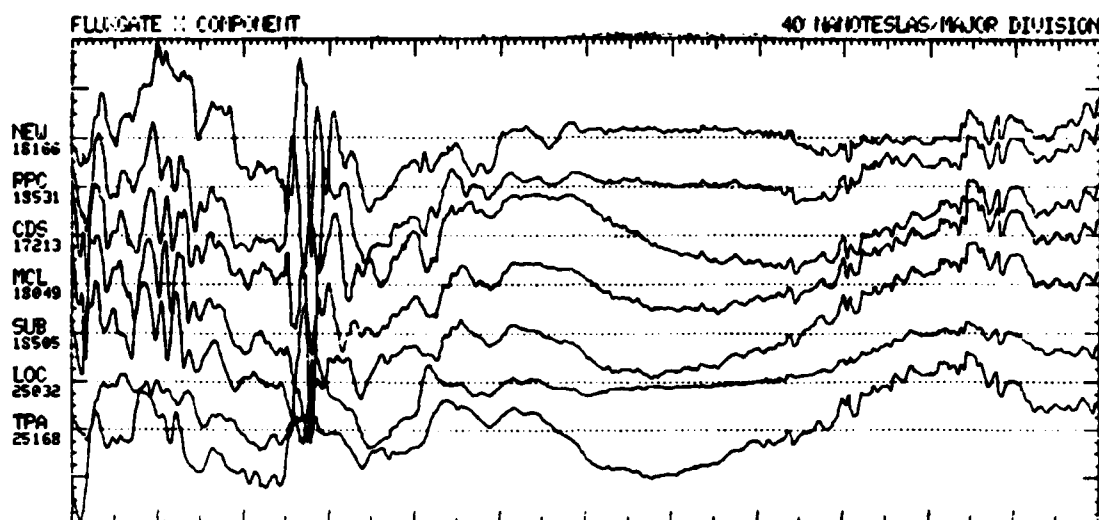
NEW
54773
RPC
54910
CDS
55645
MCL
54979
SUB
53509
LOC
42988
TPA
43459

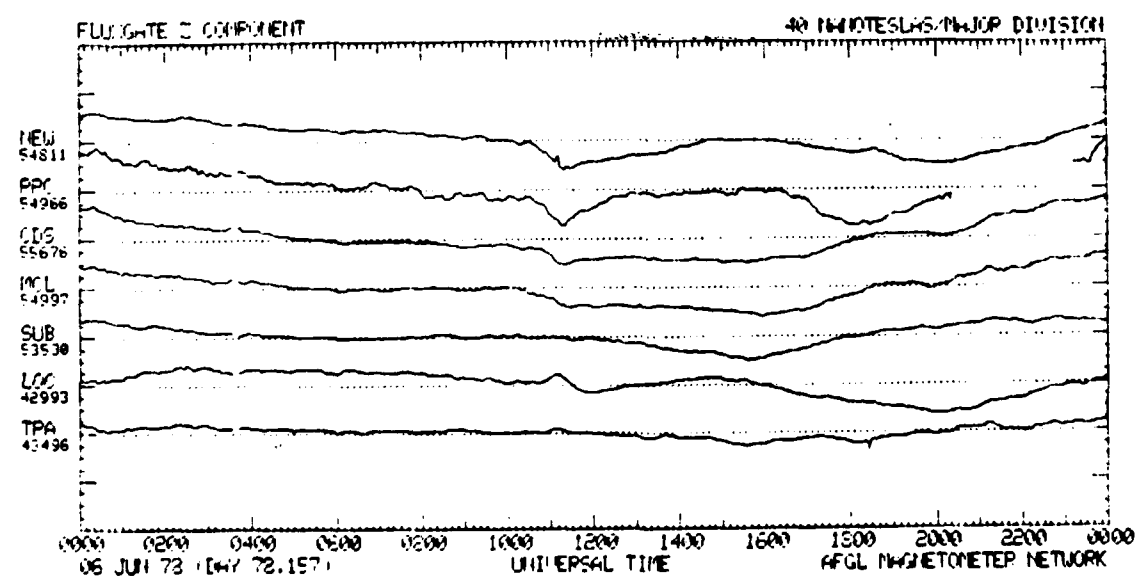
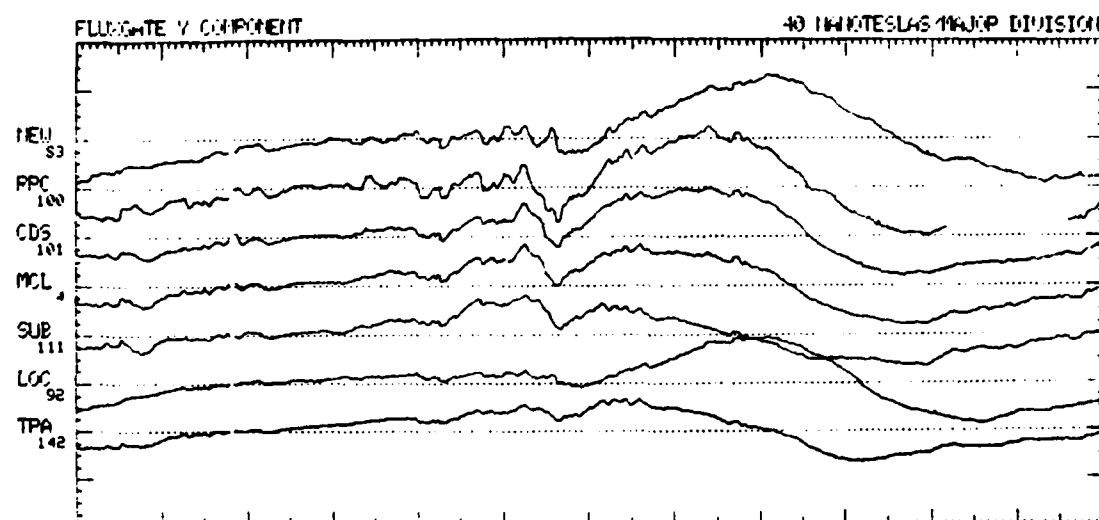
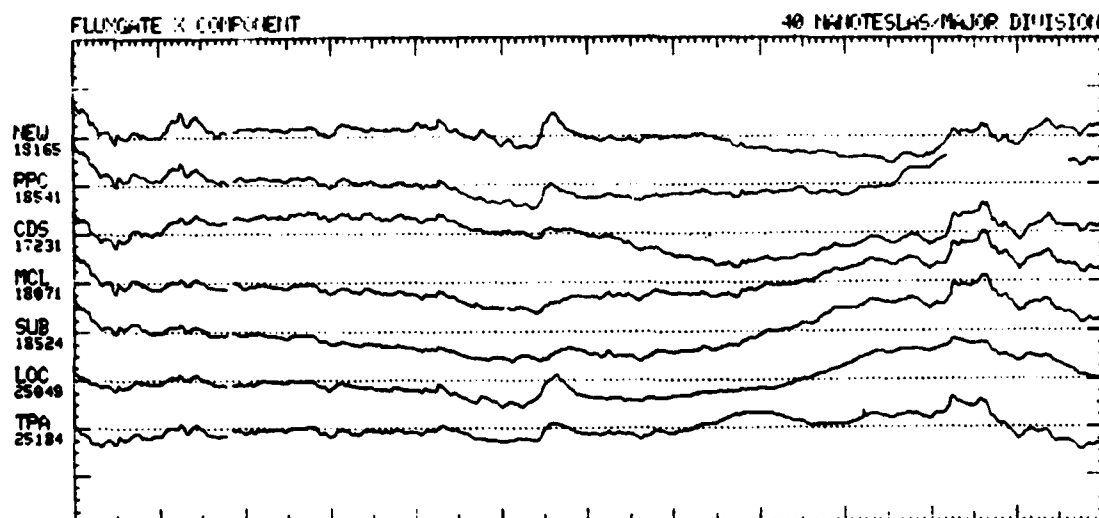


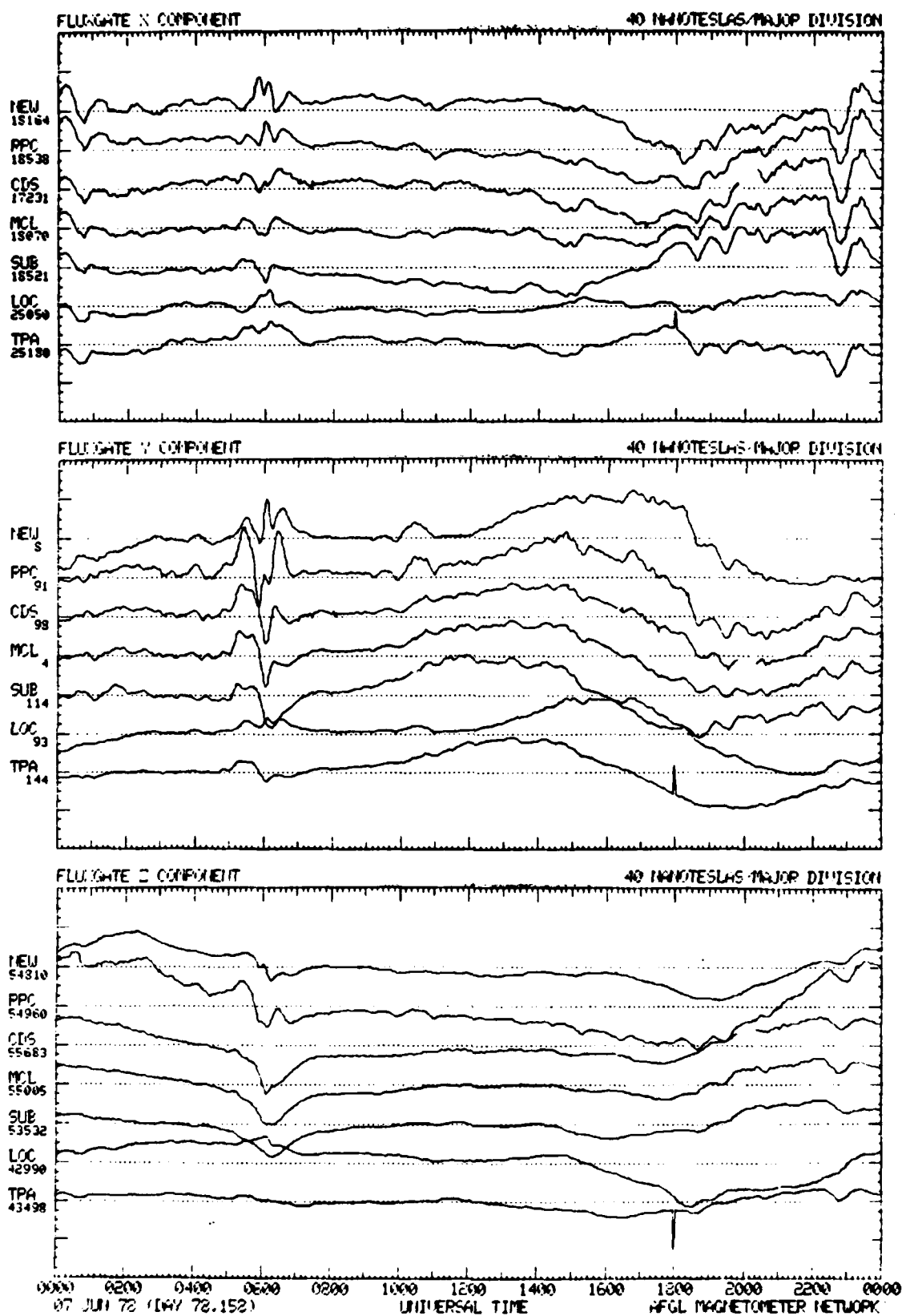
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
02 JUN 72 (DAY 73.153) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

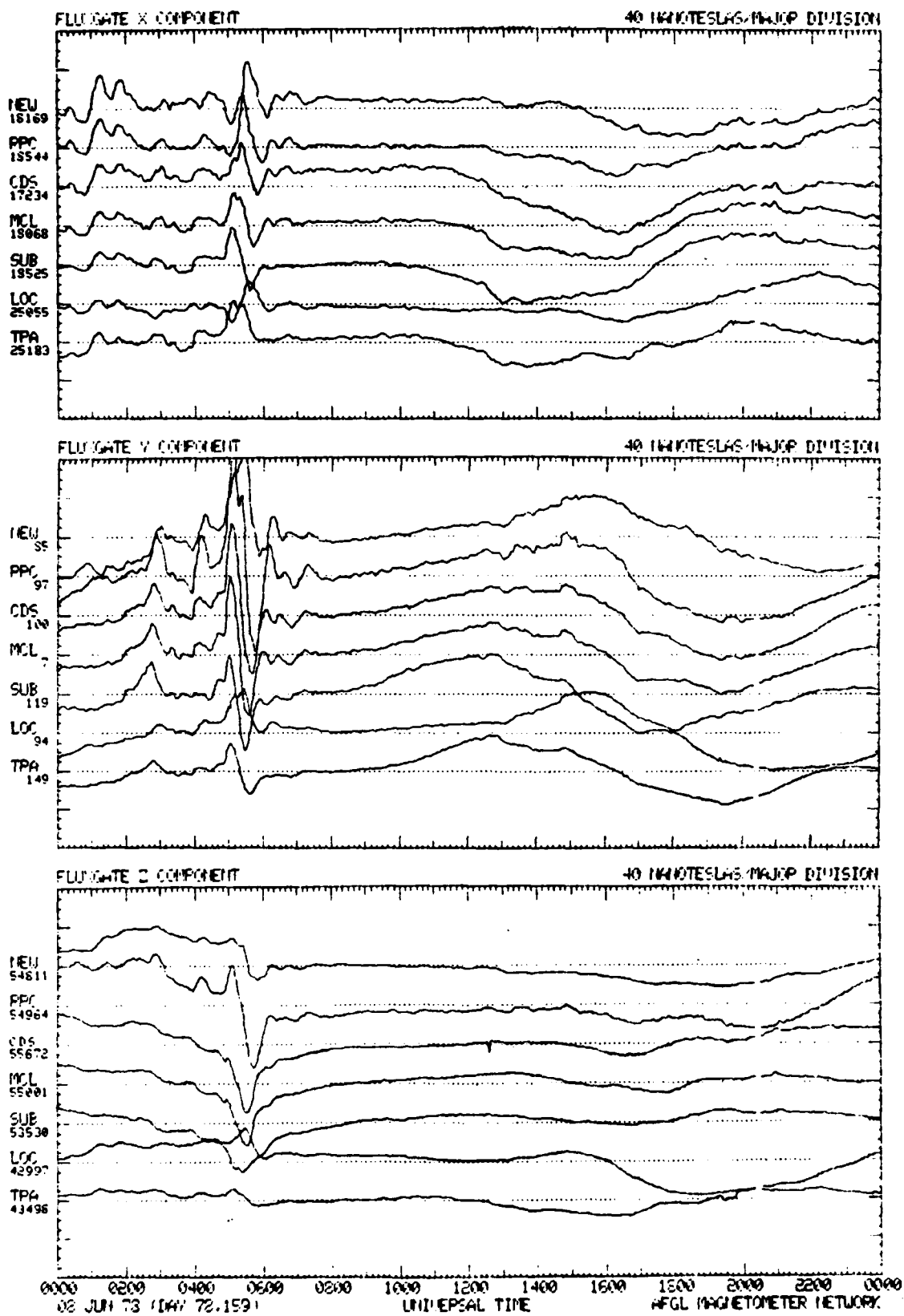


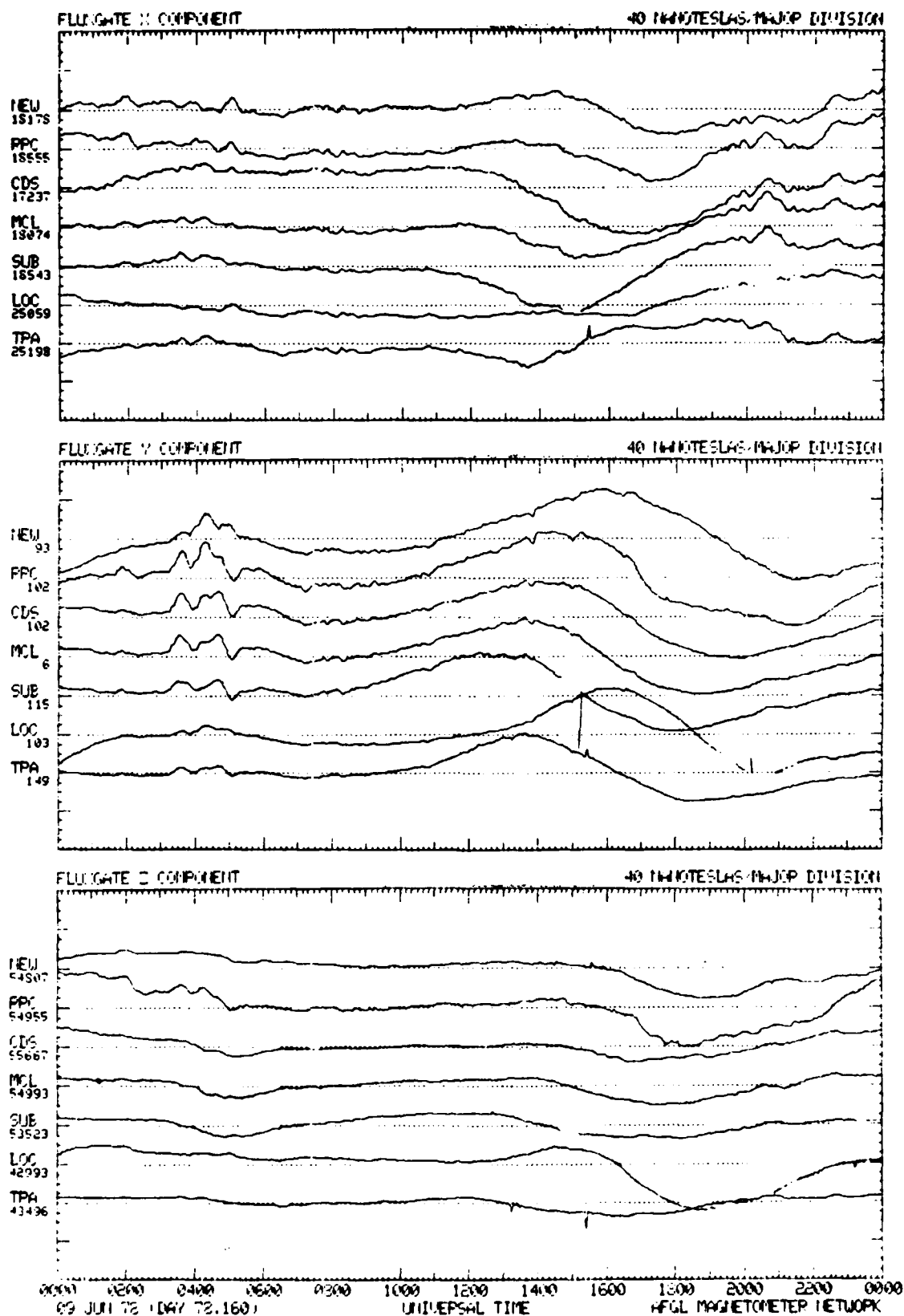


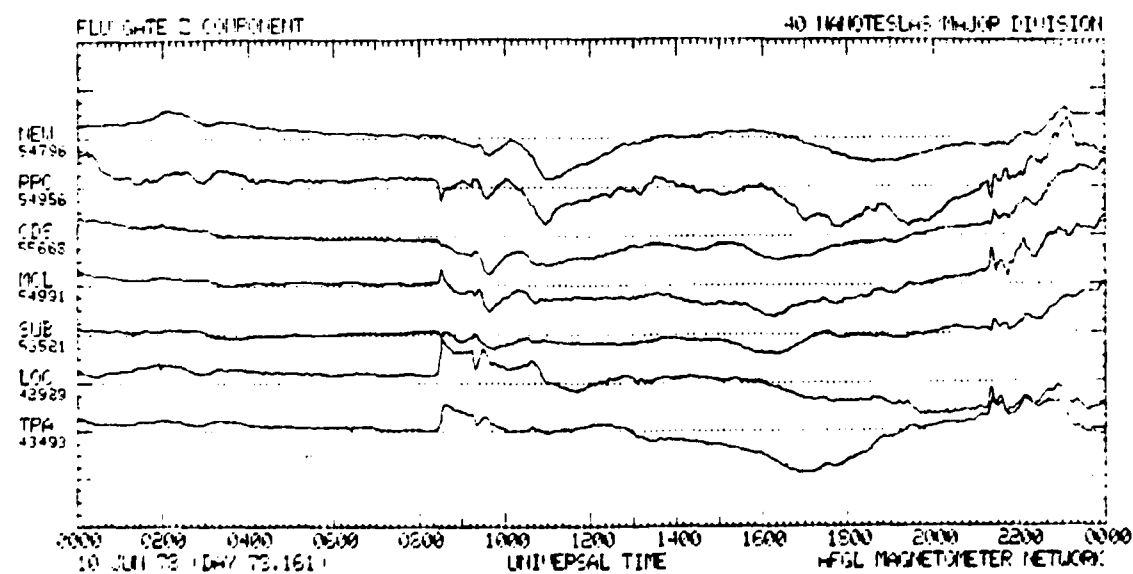
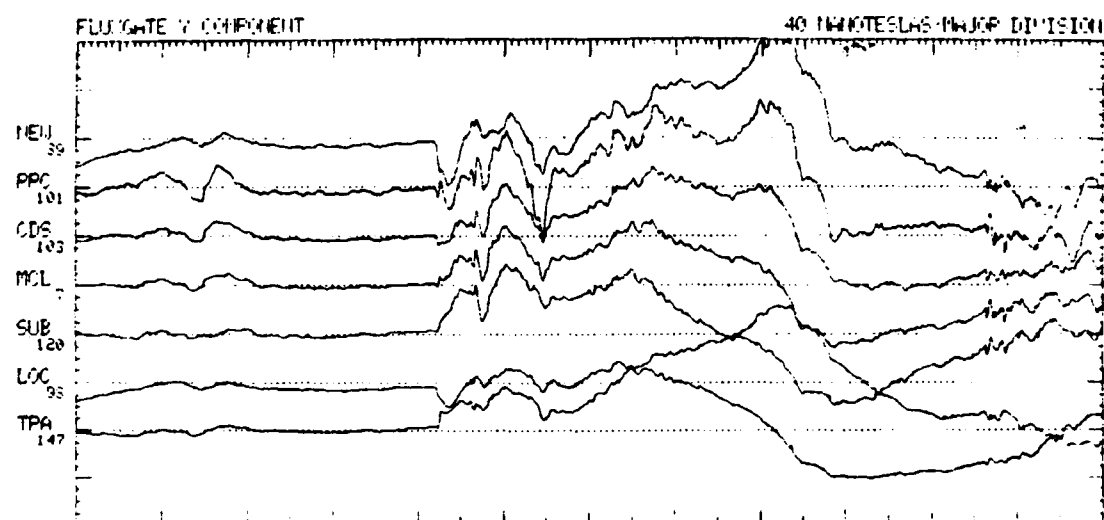
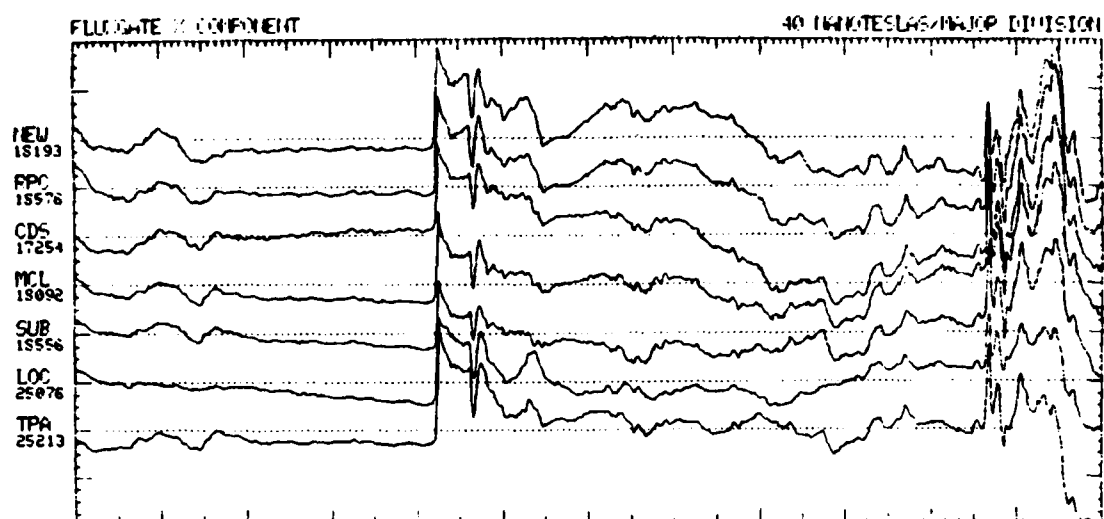


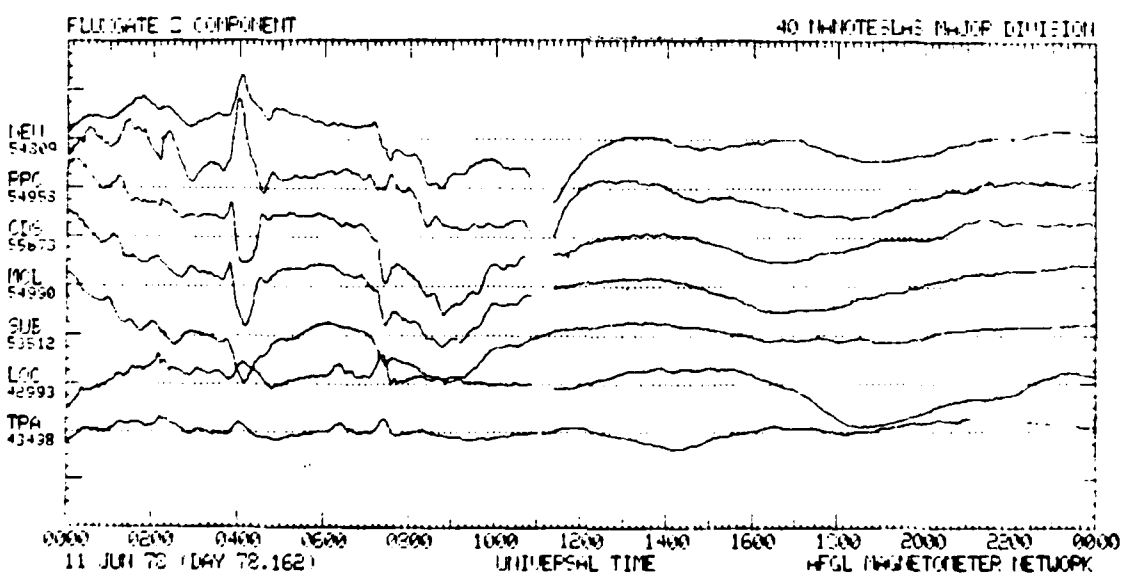
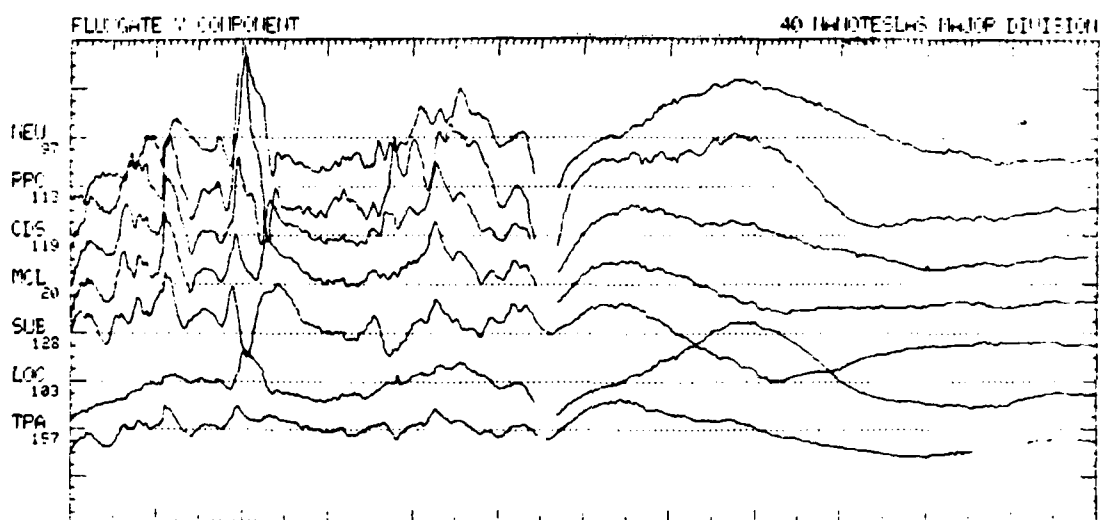
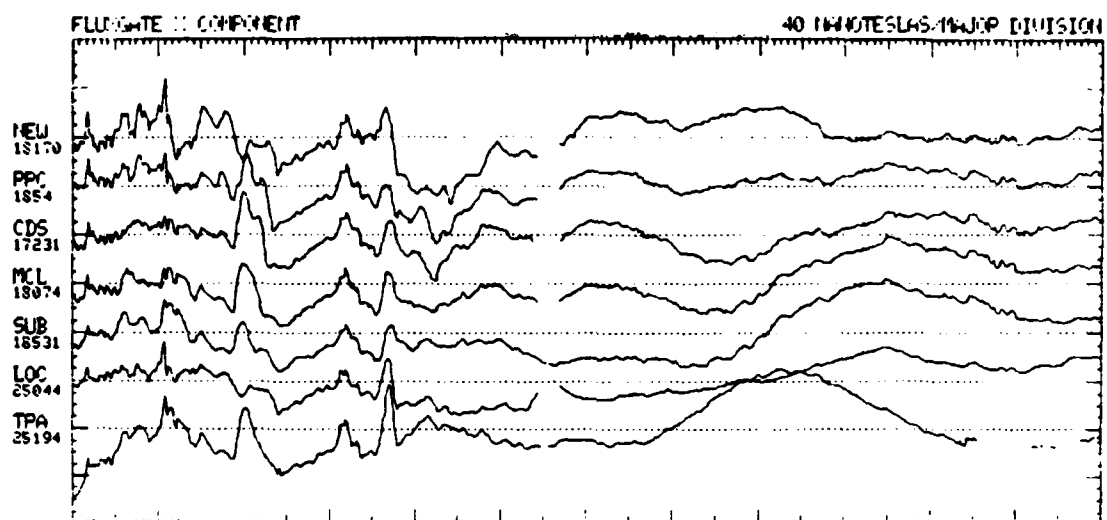


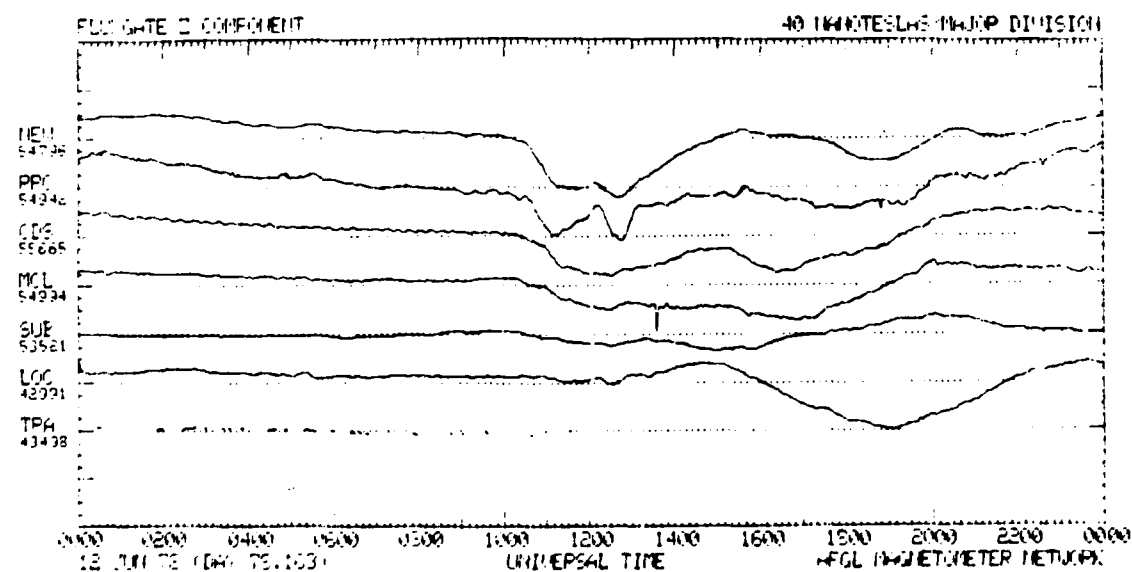
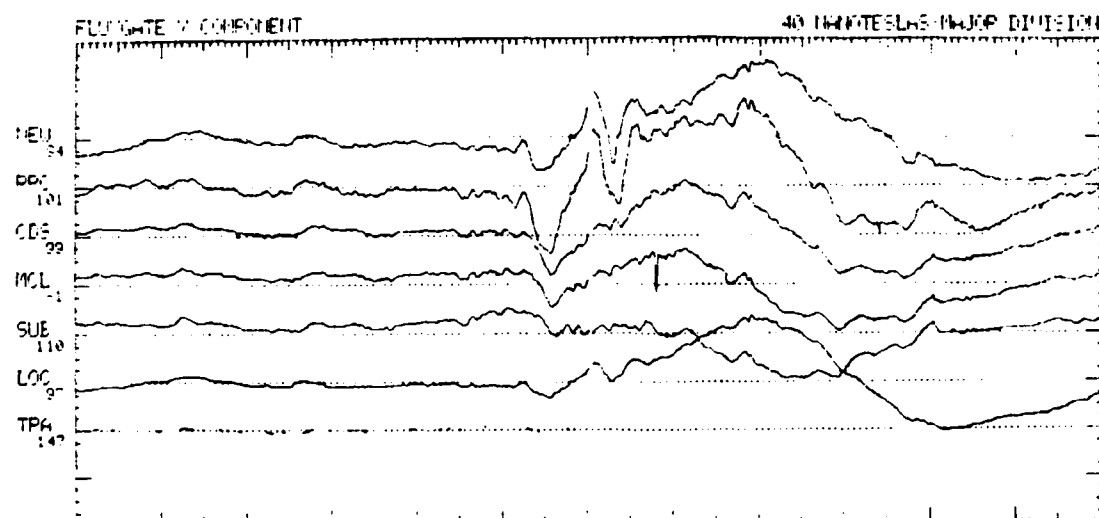
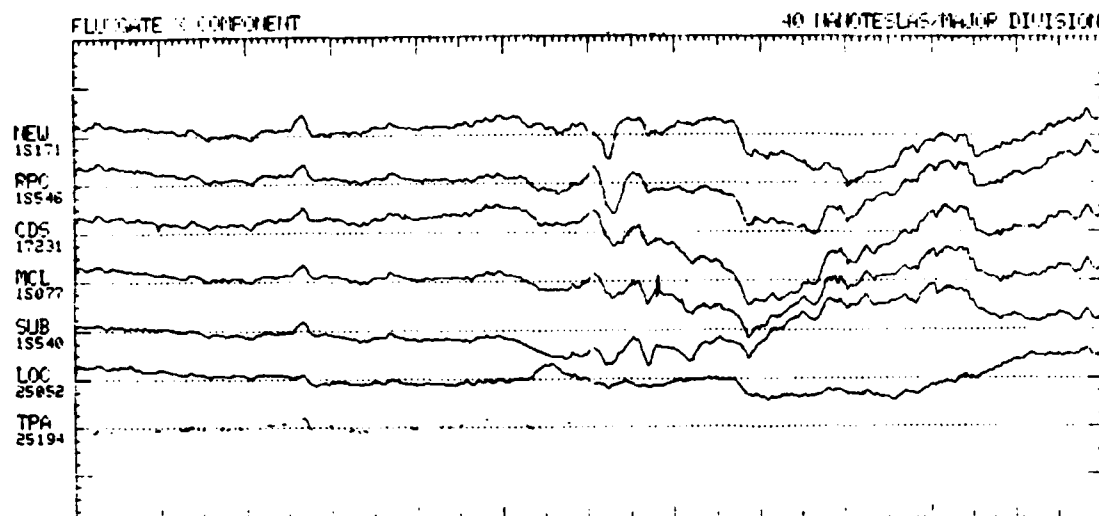


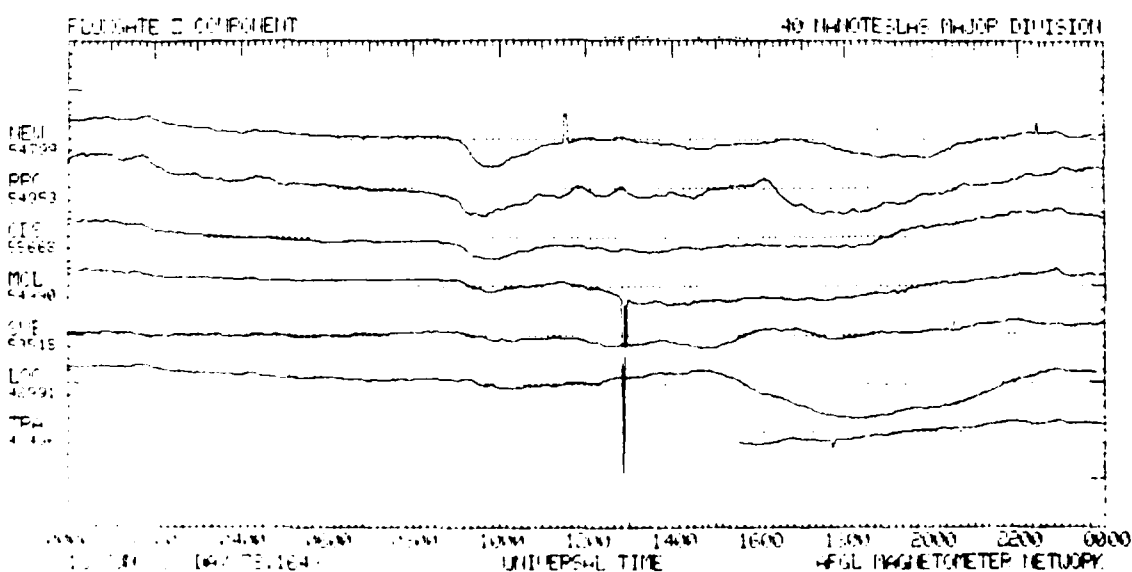
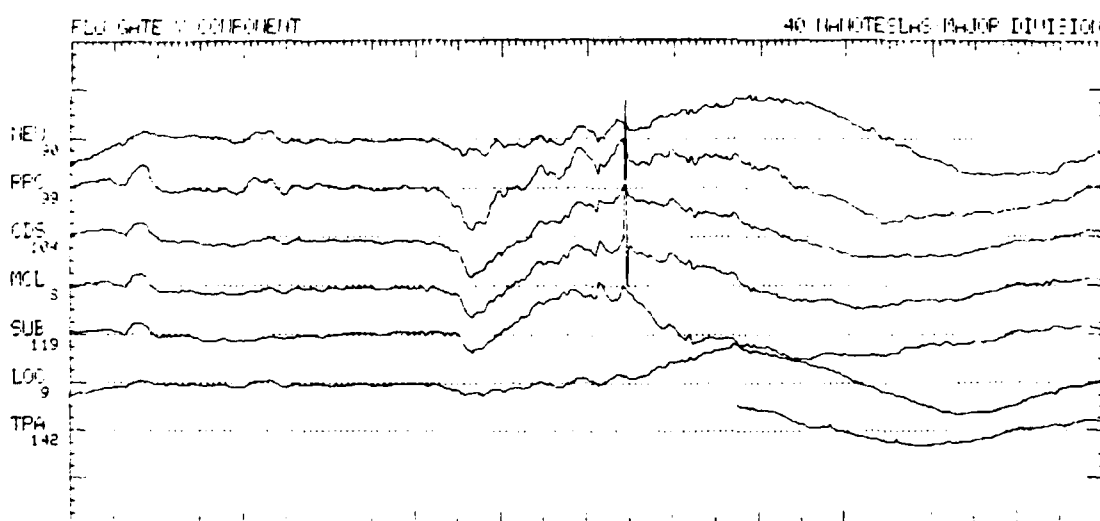
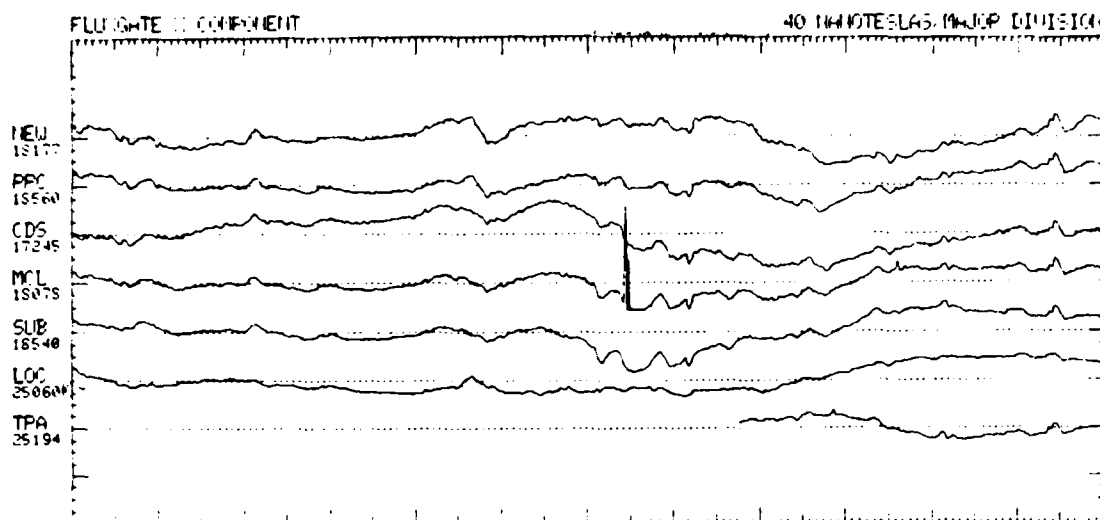


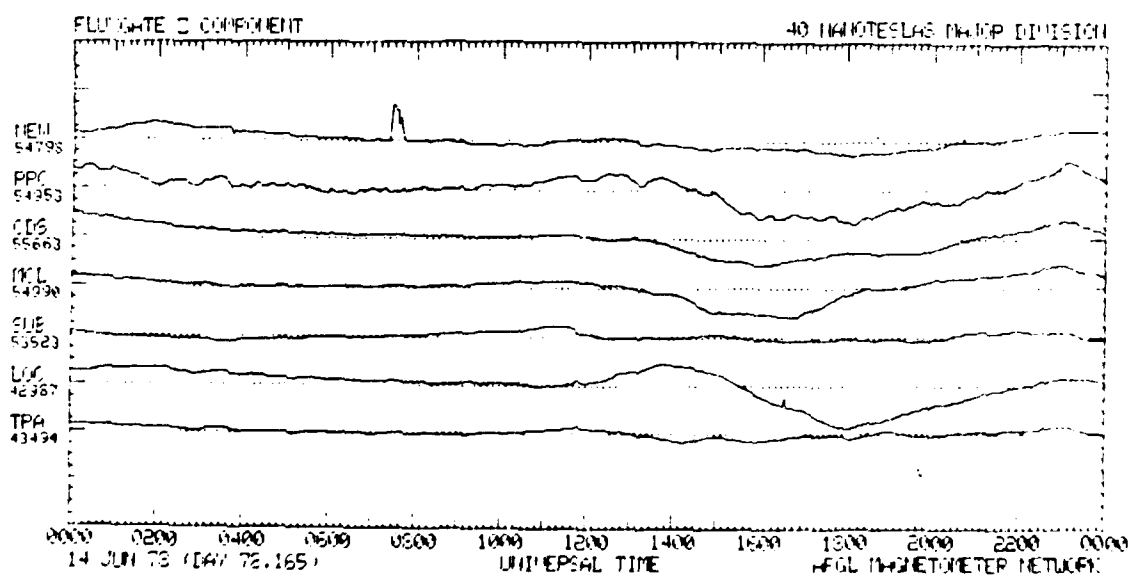
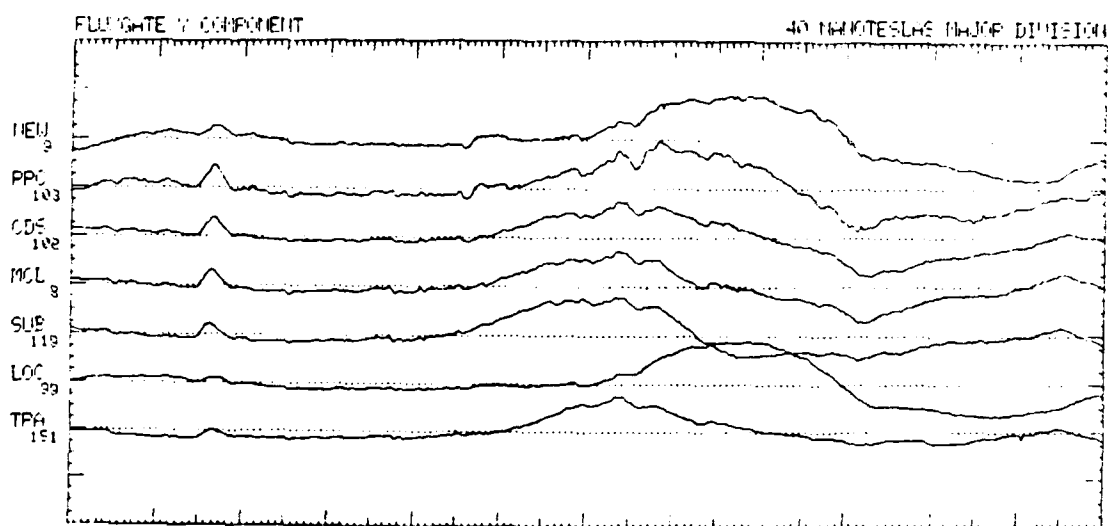
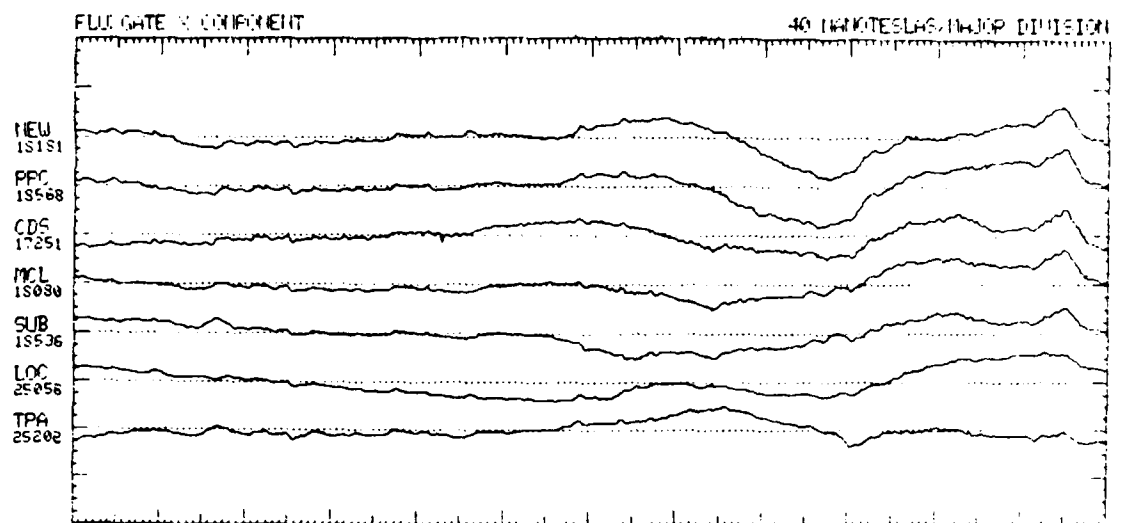


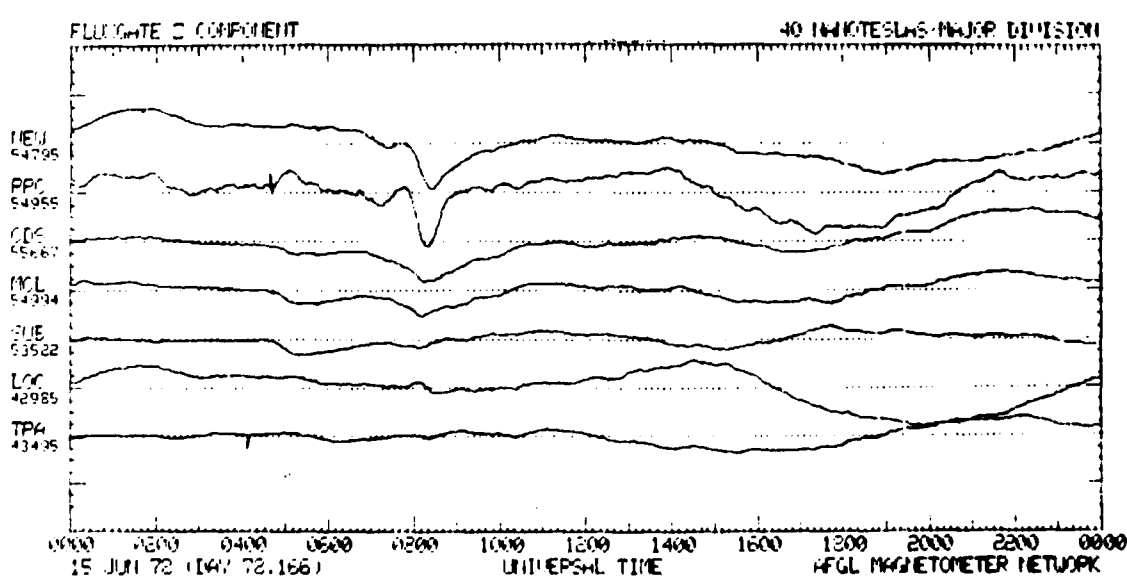
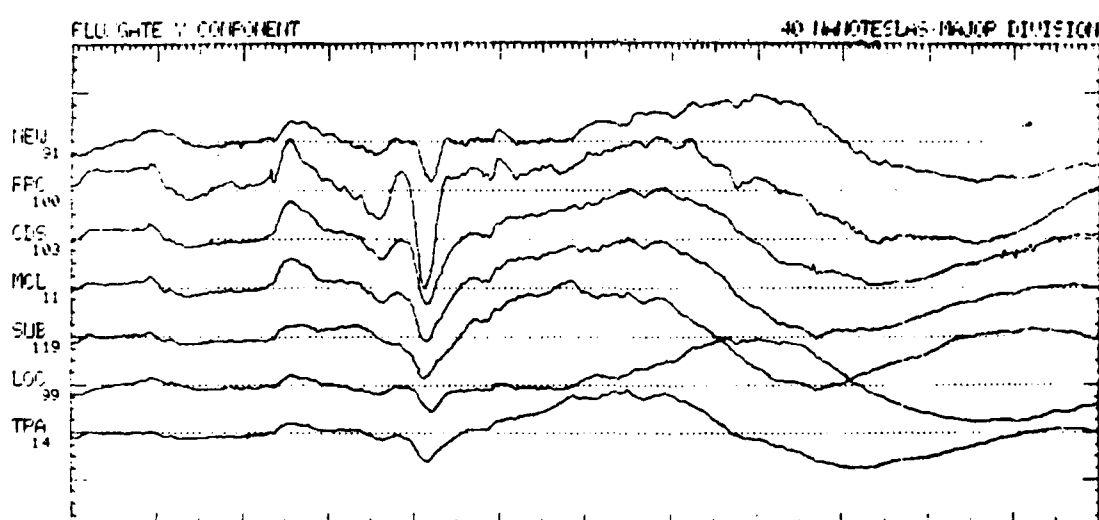
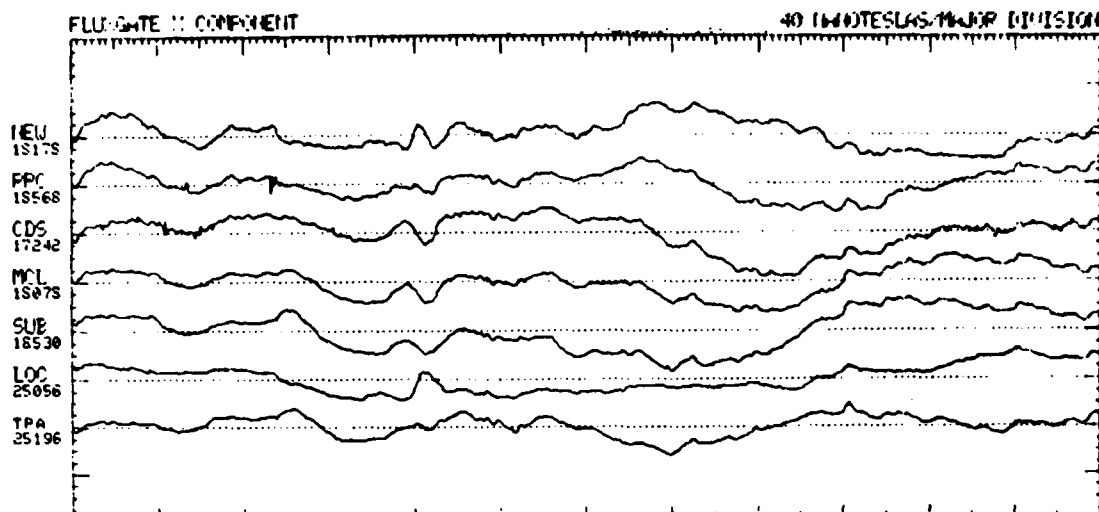


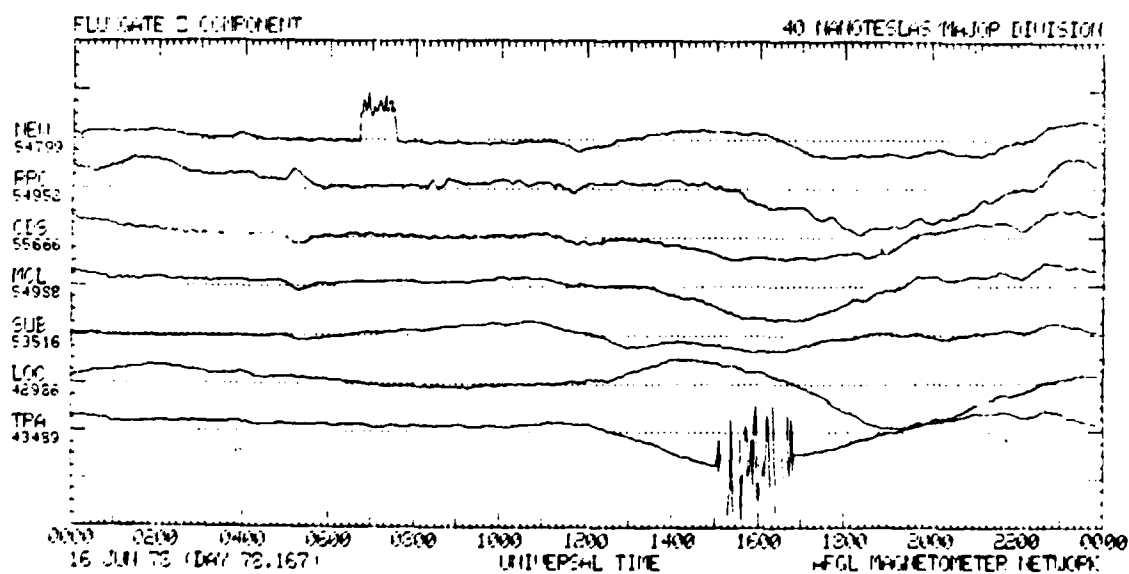
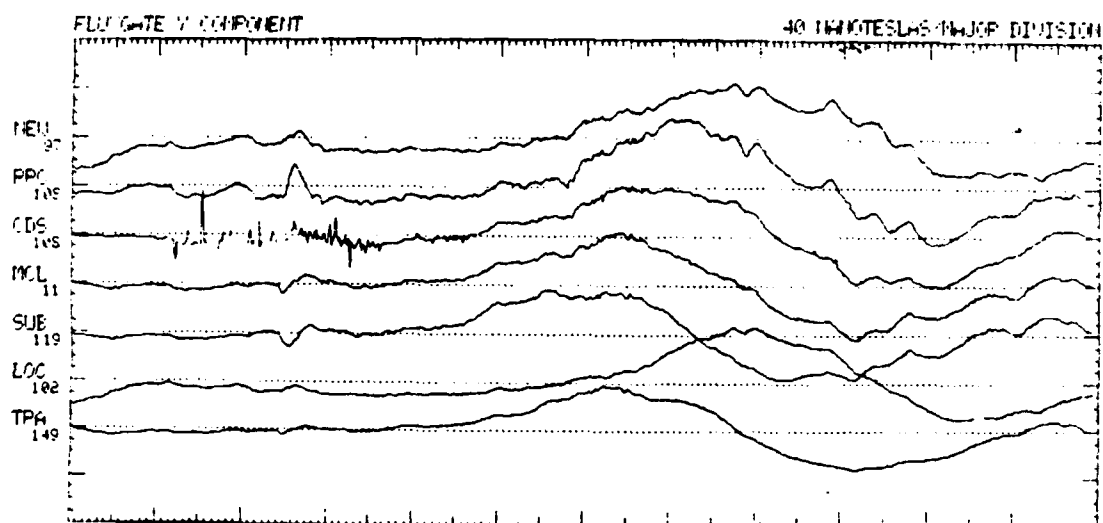
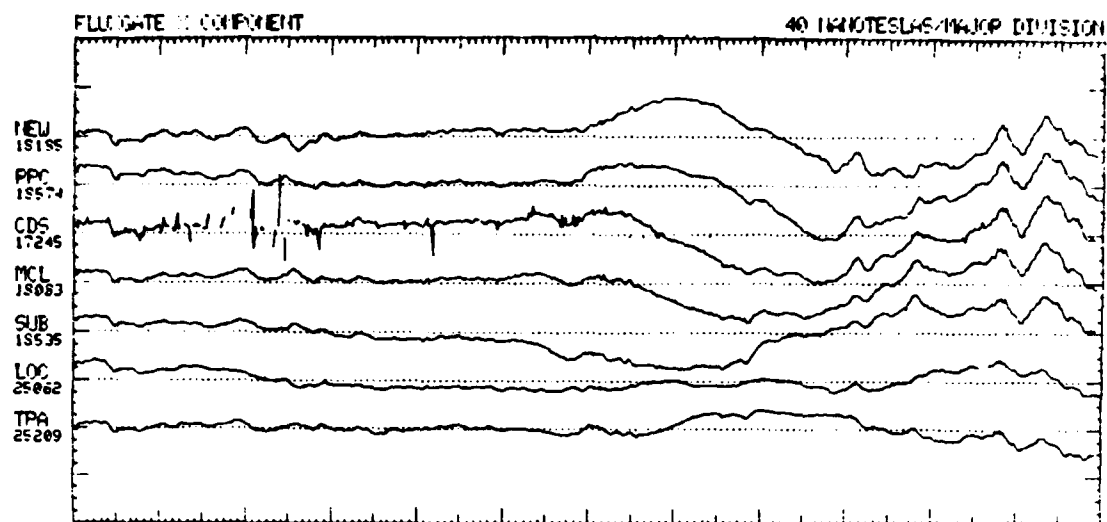


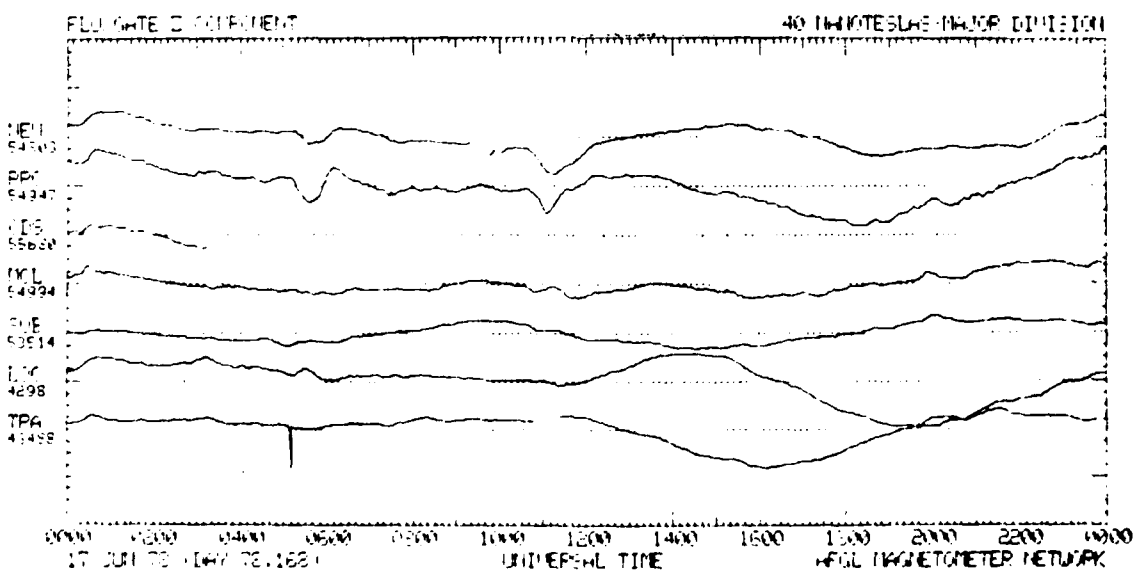
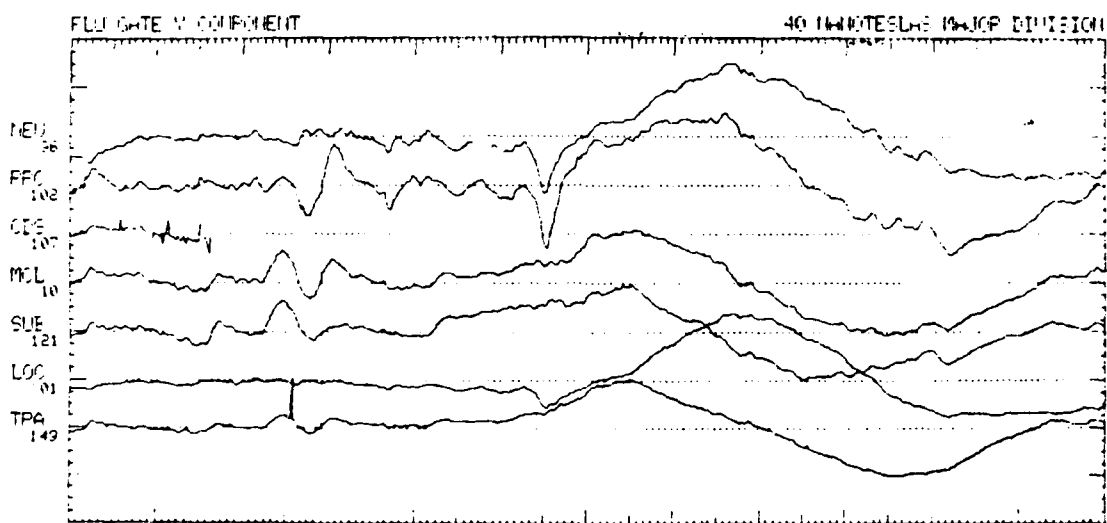
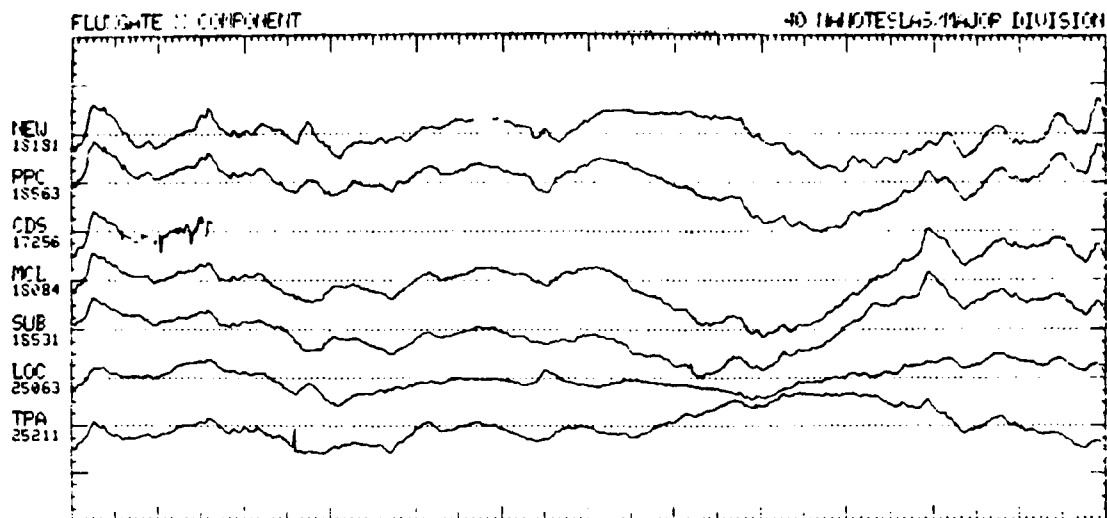








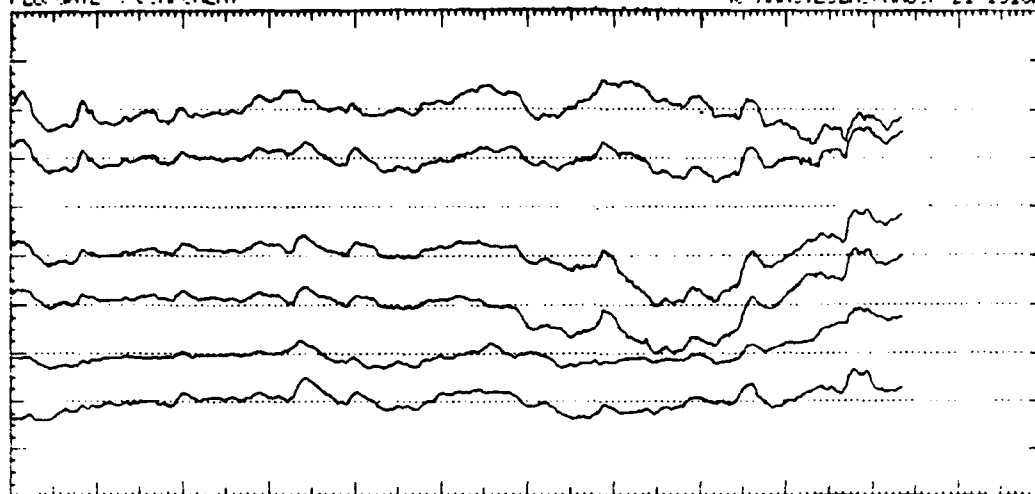




FLUTGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

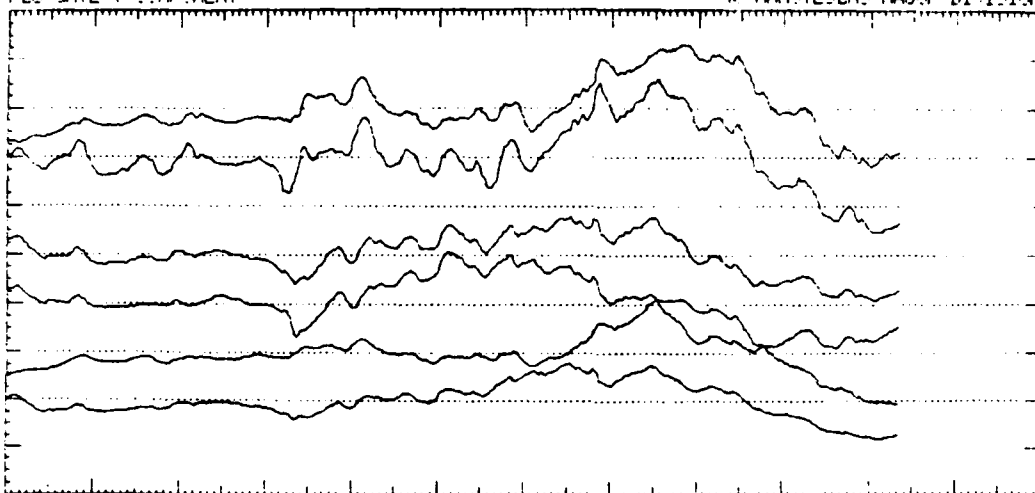
NEU
15157
PPC
15567
CDS
17256
MCL
16088
SUB
18531
LOC
25069
TPA
25205



FLUTGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

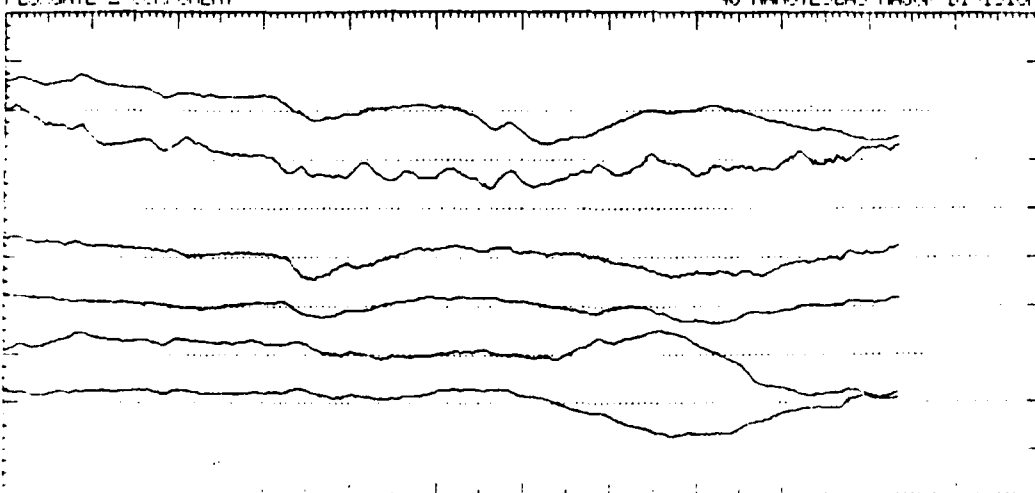
NEU
37
PPC
39
CDS
107
MCL
7
SUB
114
LOC
99
TPA
151



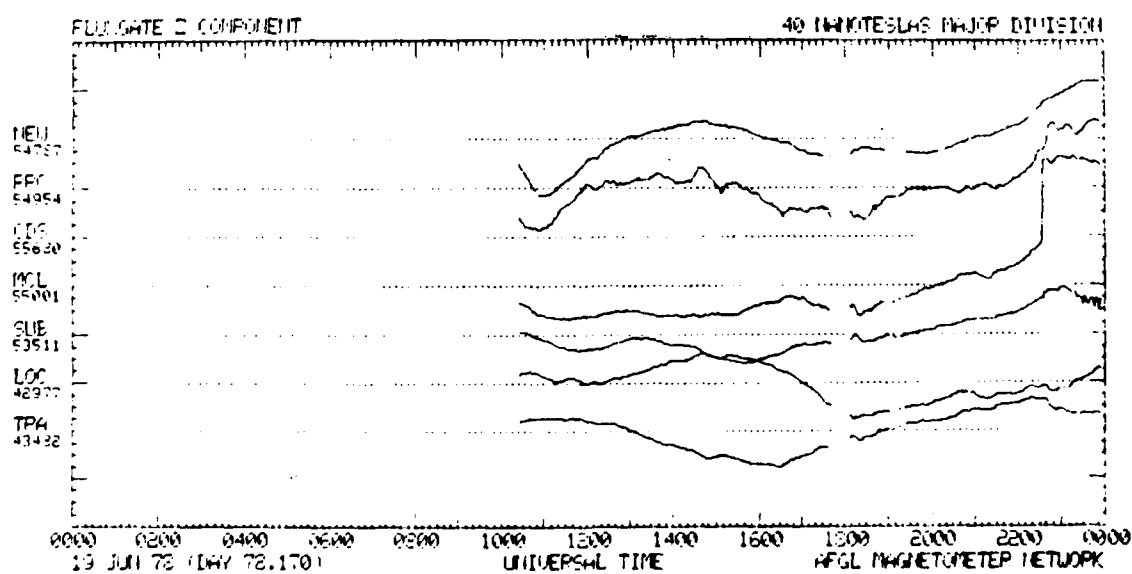
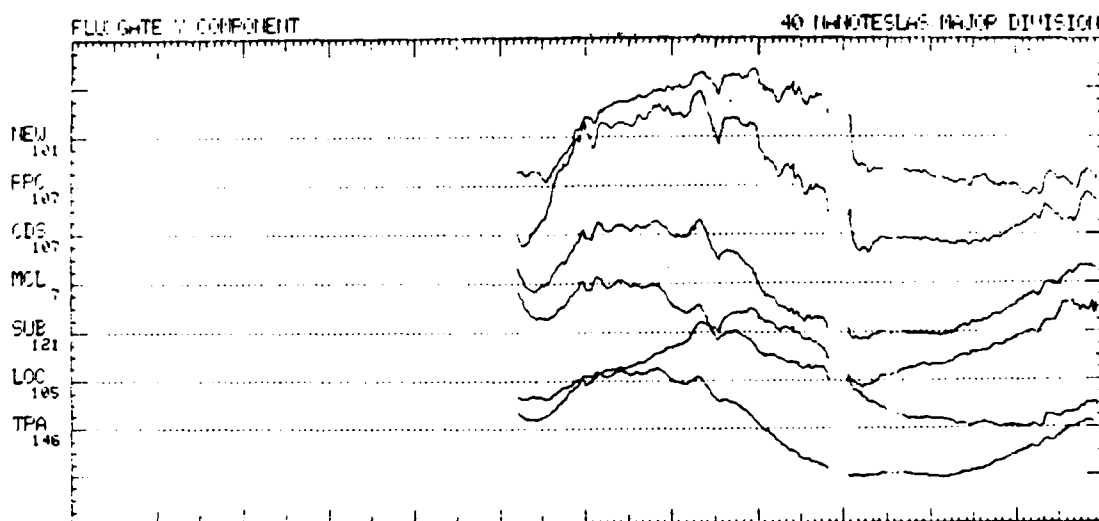
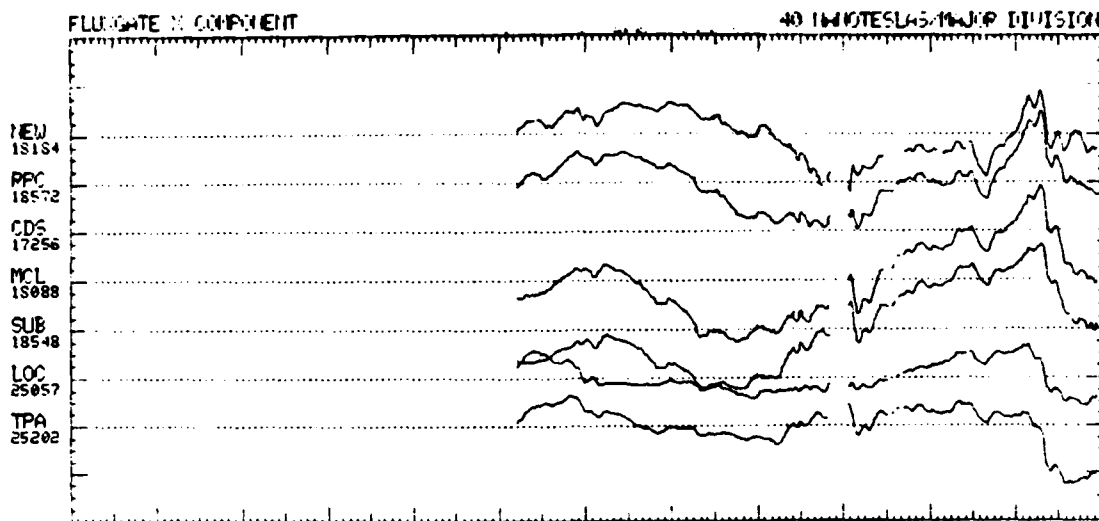
FLUTGATE Z COMPONENT

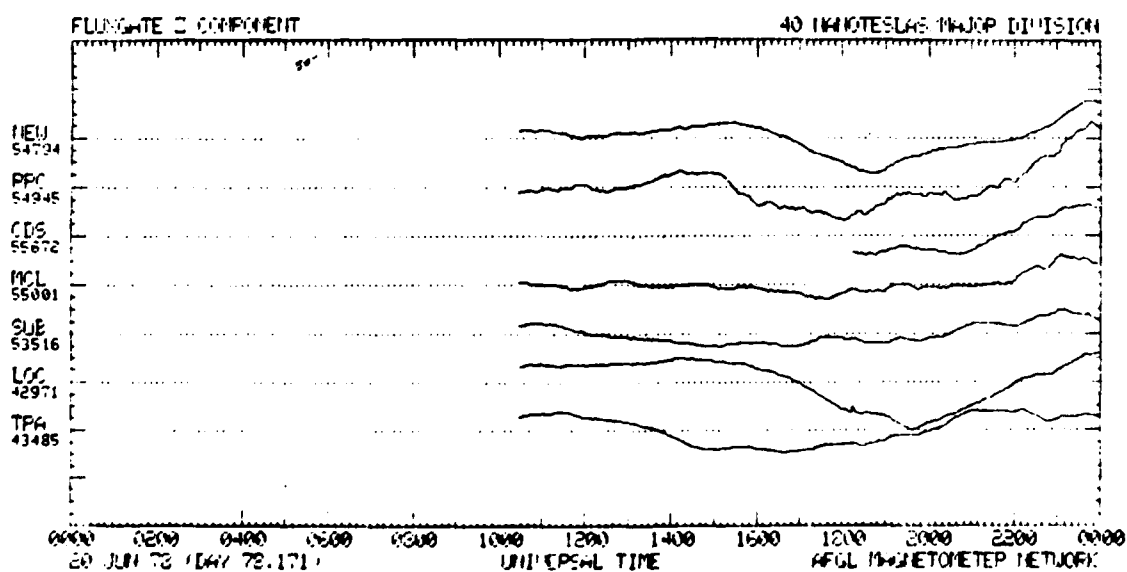
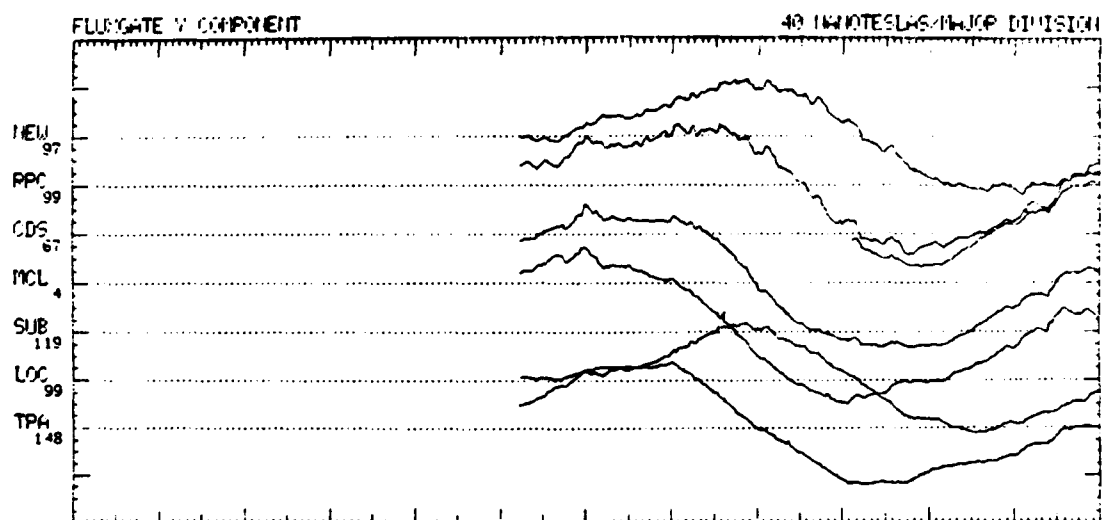
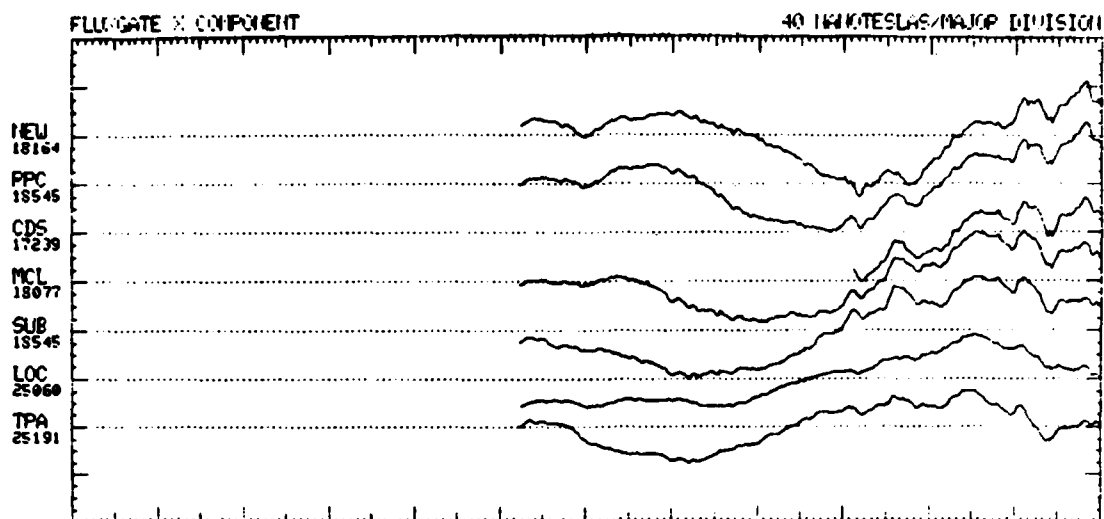
40 NANOTESLAS/MAJOR DIVISION

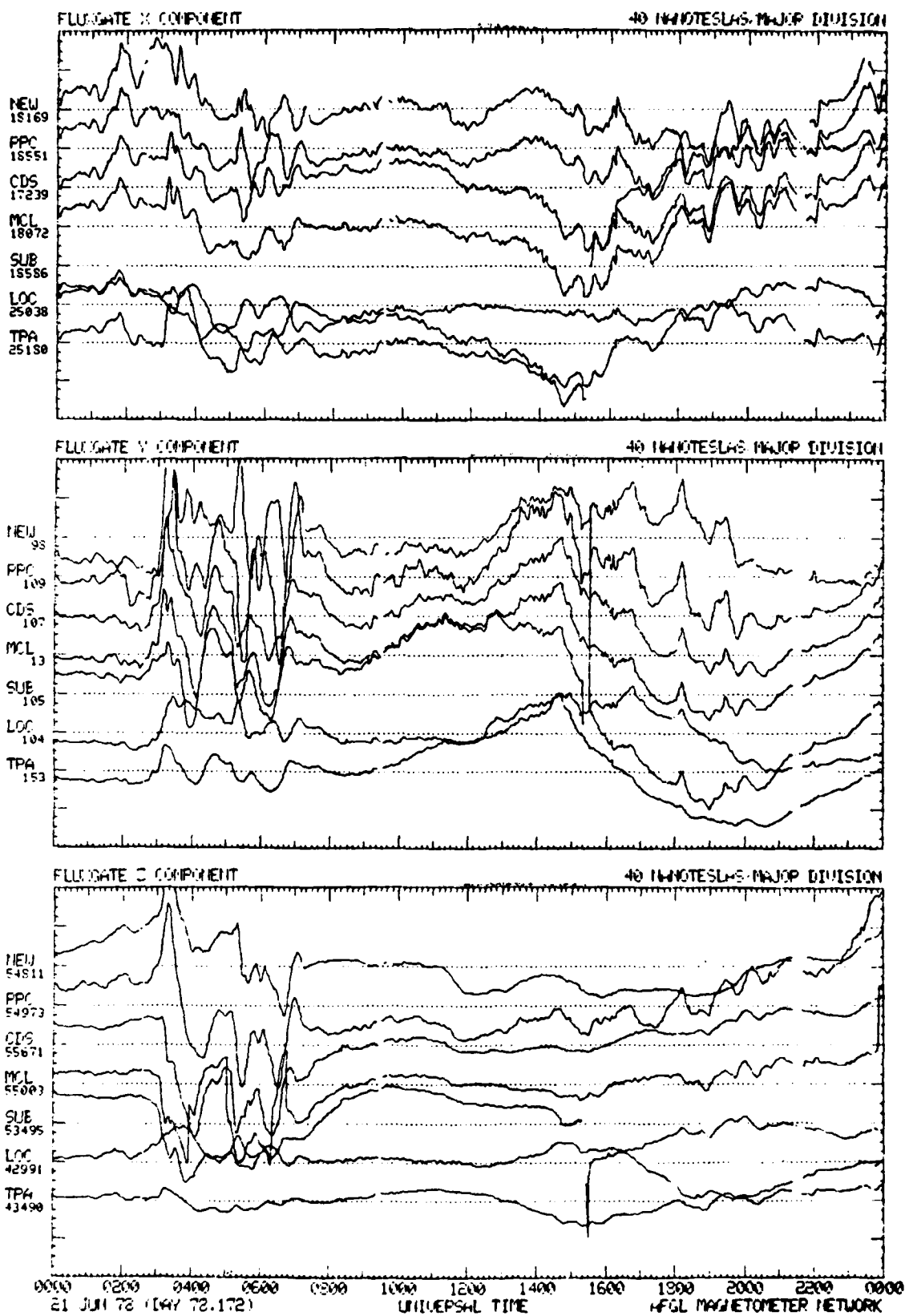
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5459
PPC
54937
CDS
45650
MCL
54932
SUB
61511
LOC
42986
TPA
41454

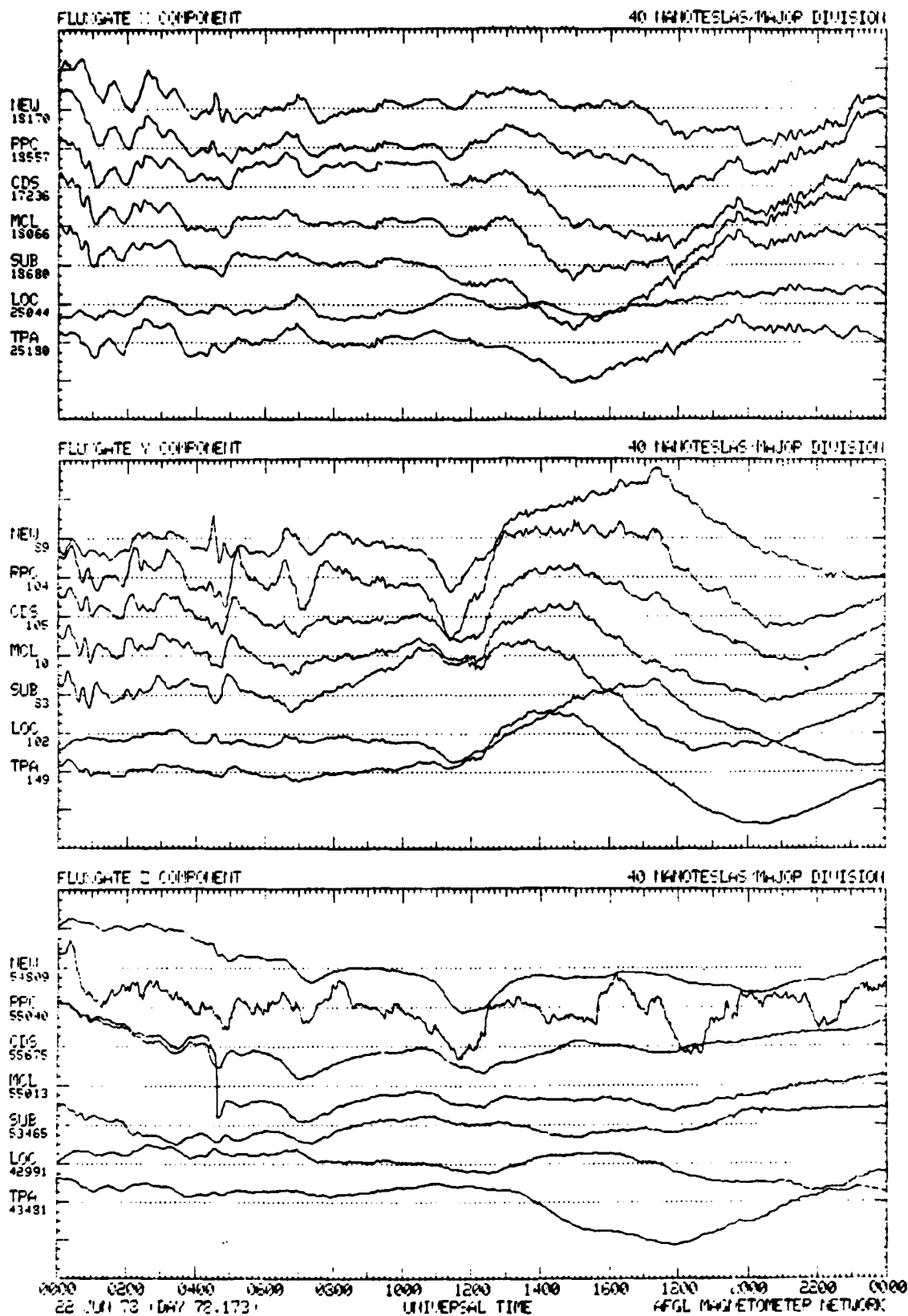


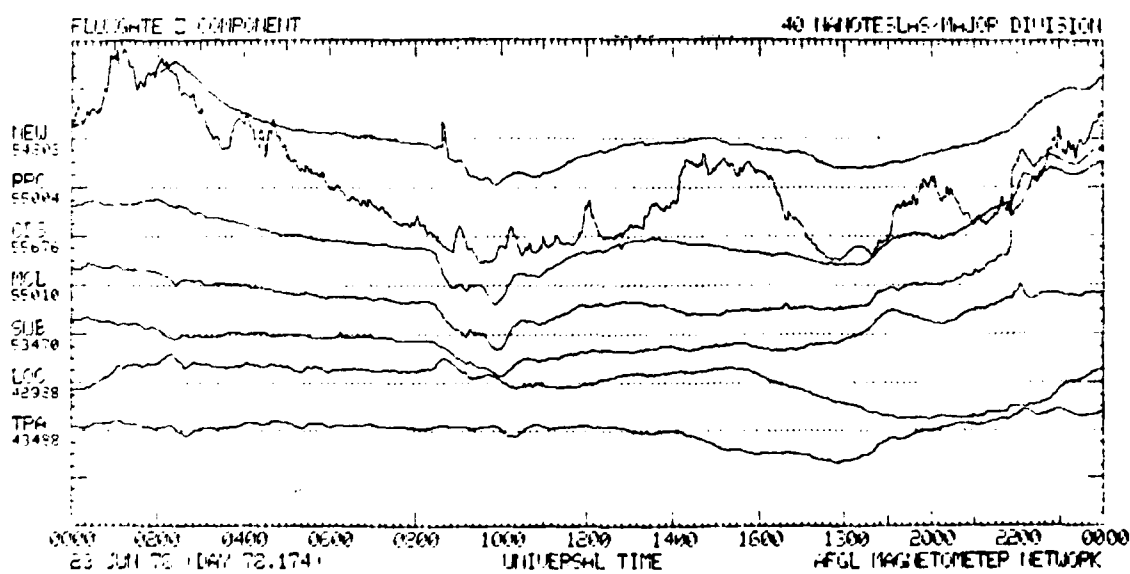
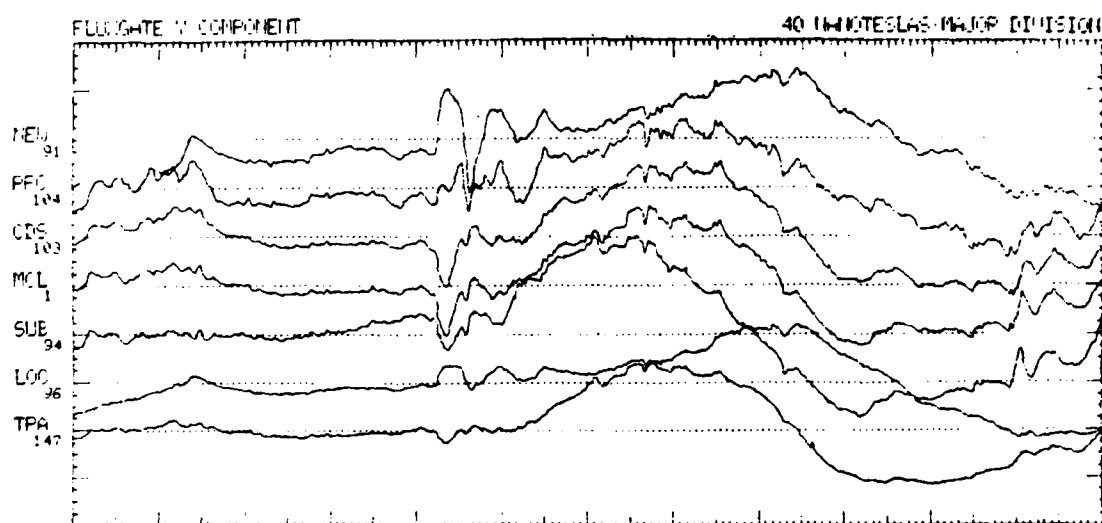
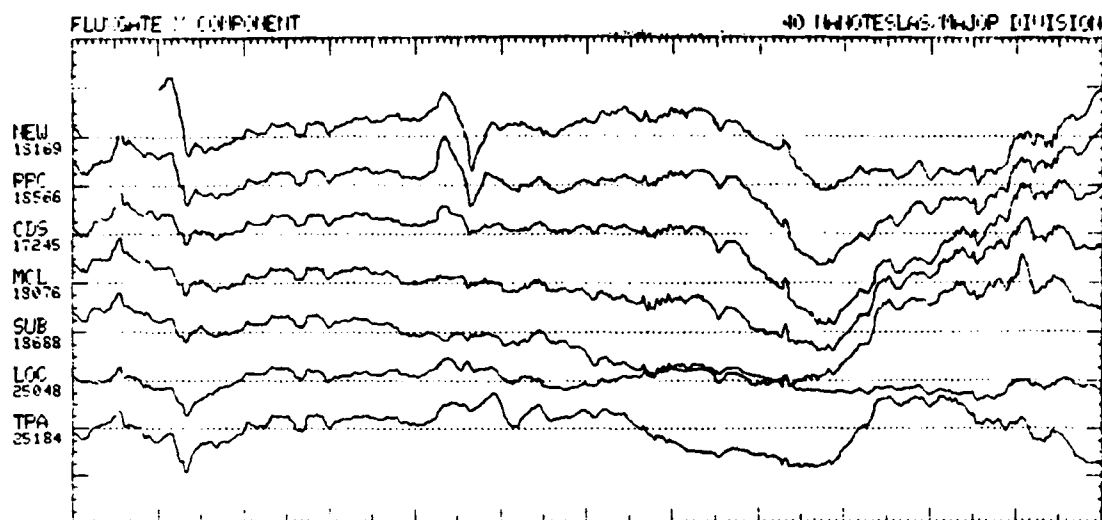
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13 JUN 73 (DAY 73.169) UNIVERSAL TIME MFGI MAGNETOMETER NETWORK

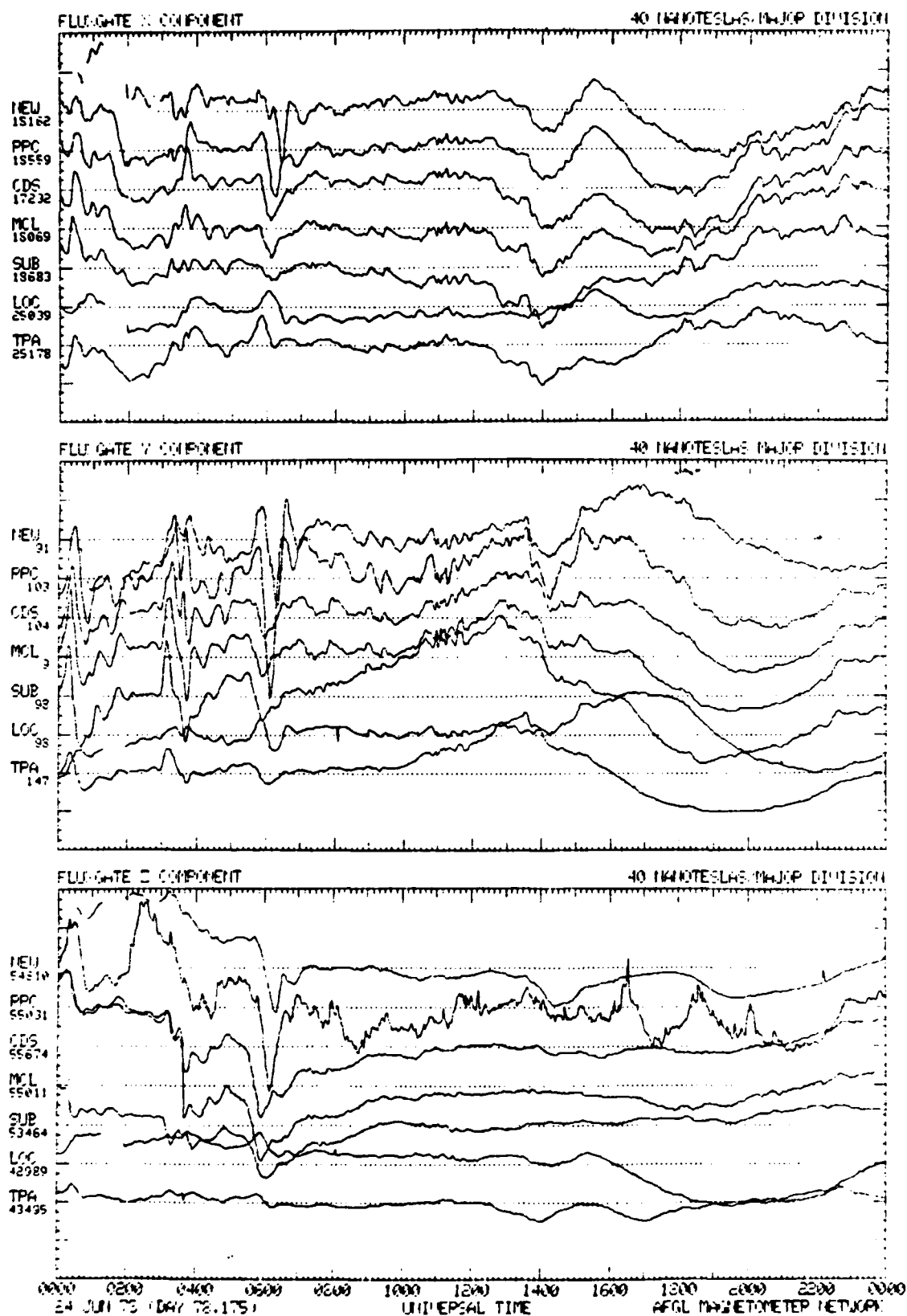


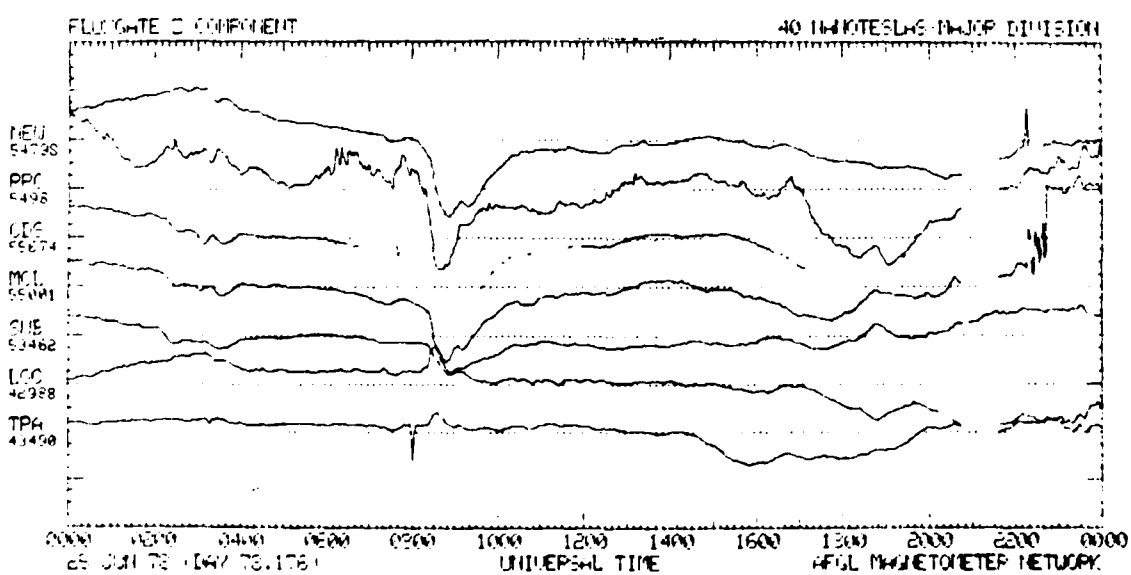
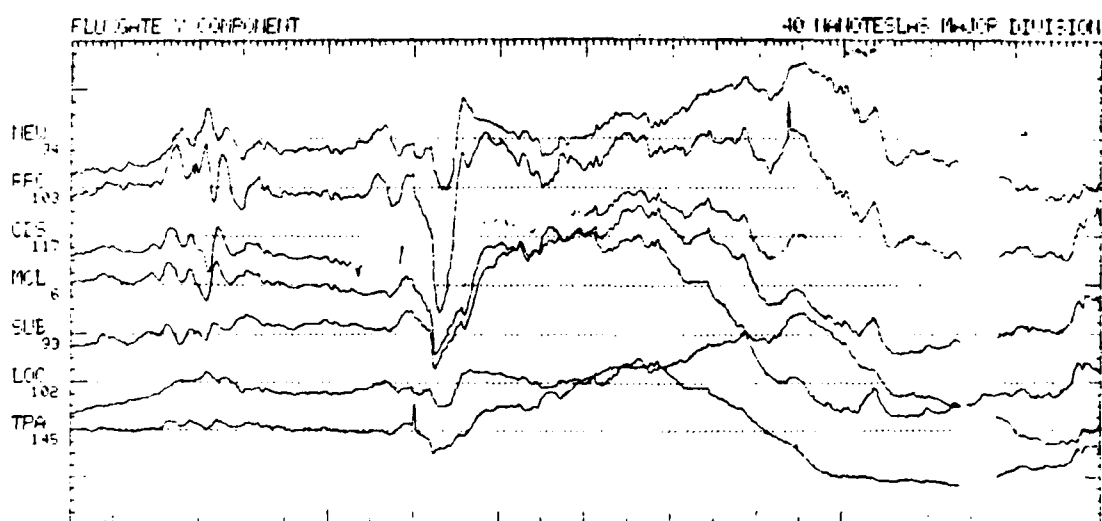
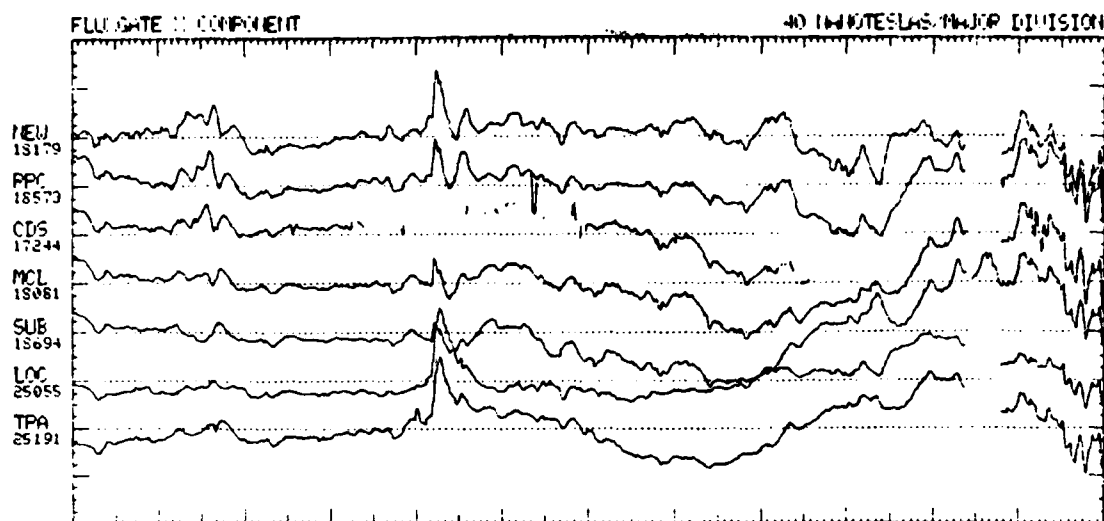








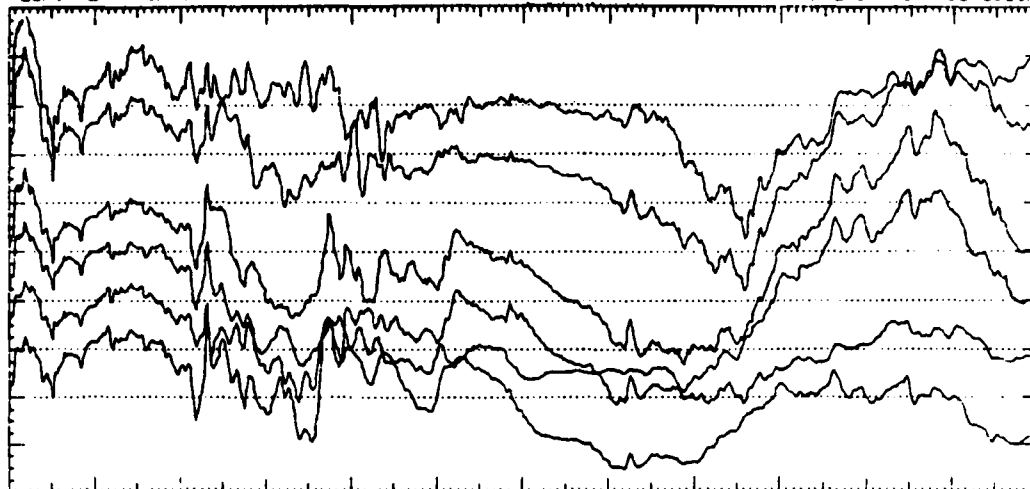




FLUXGATE X COMPONENT

40 INKOTESLAS MAJOR DIVISION

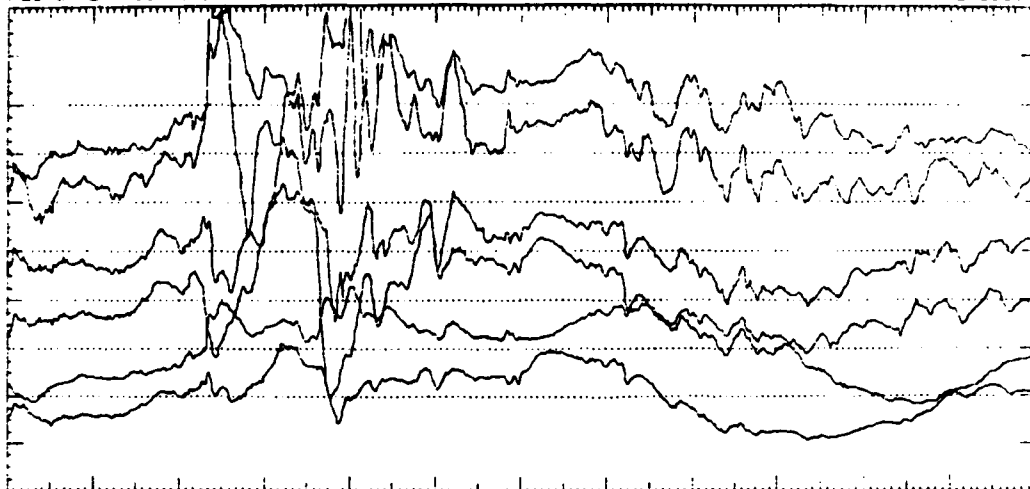
NEU
18157
PPC
19559
CDS
17244
MCL
18069
SUB
18676
LOC
25022
TPA
25161



FLUXGATE Y COMPONENT

40 INKOTESLAS MAJOR DIVISION

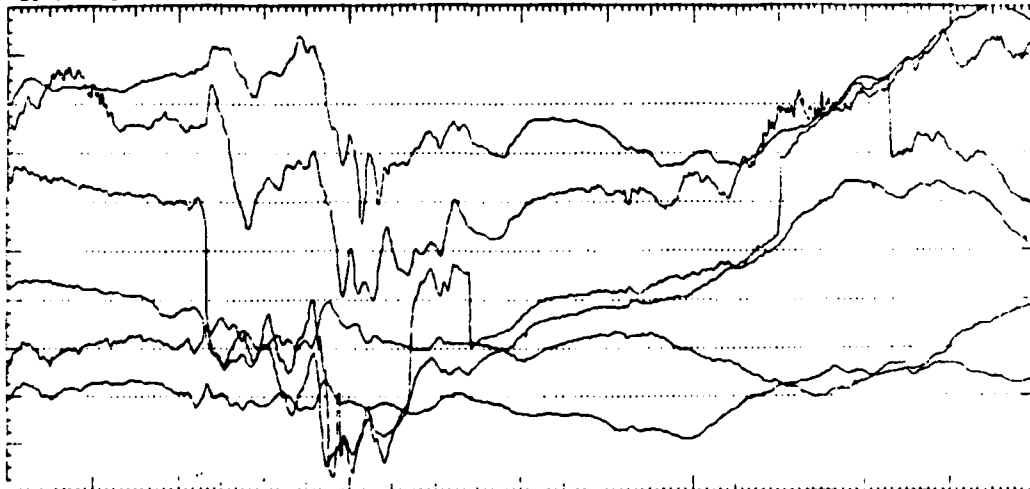
NEU
94
PPC
108
CDS
117
MCL
5
SUB
86
LOC
98
TPA
147



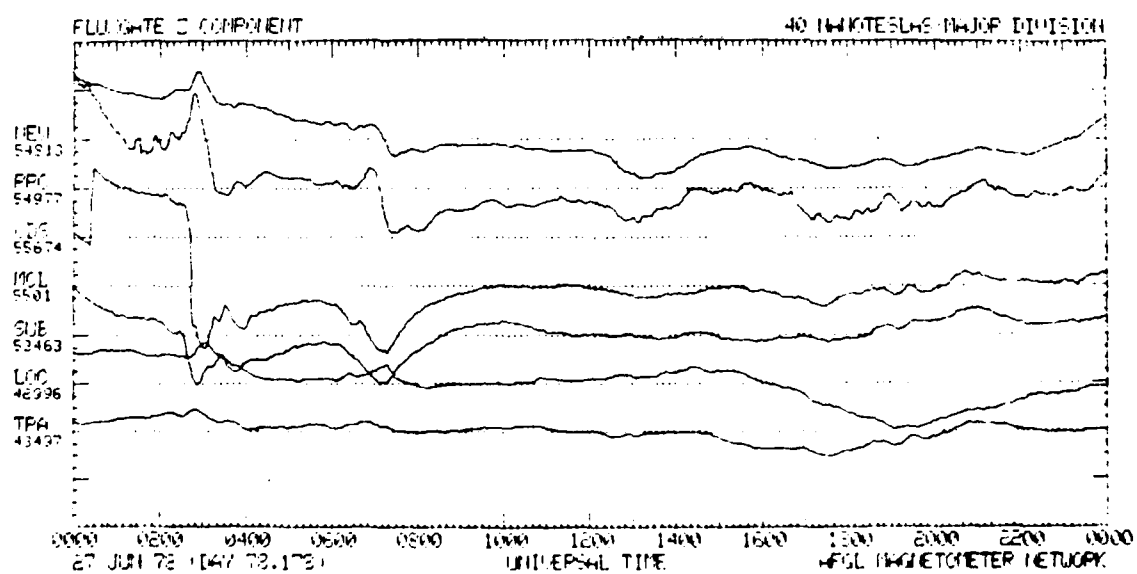
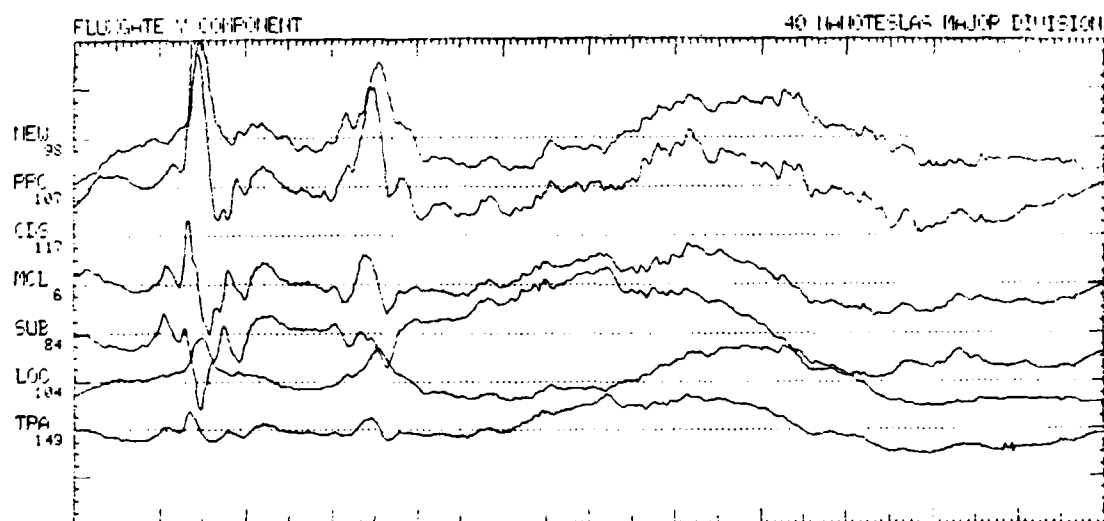
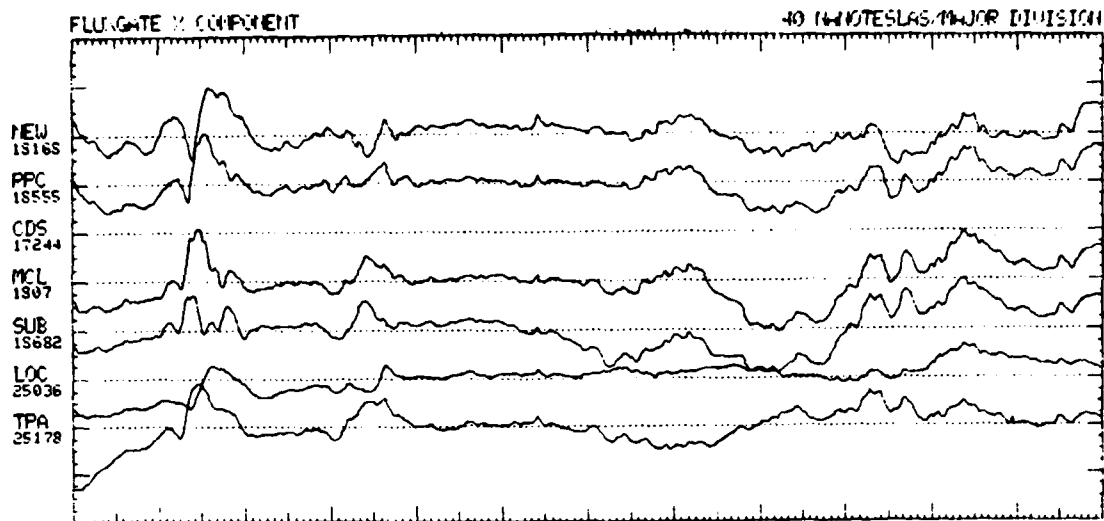
FLUXGATE Z COMPONENT

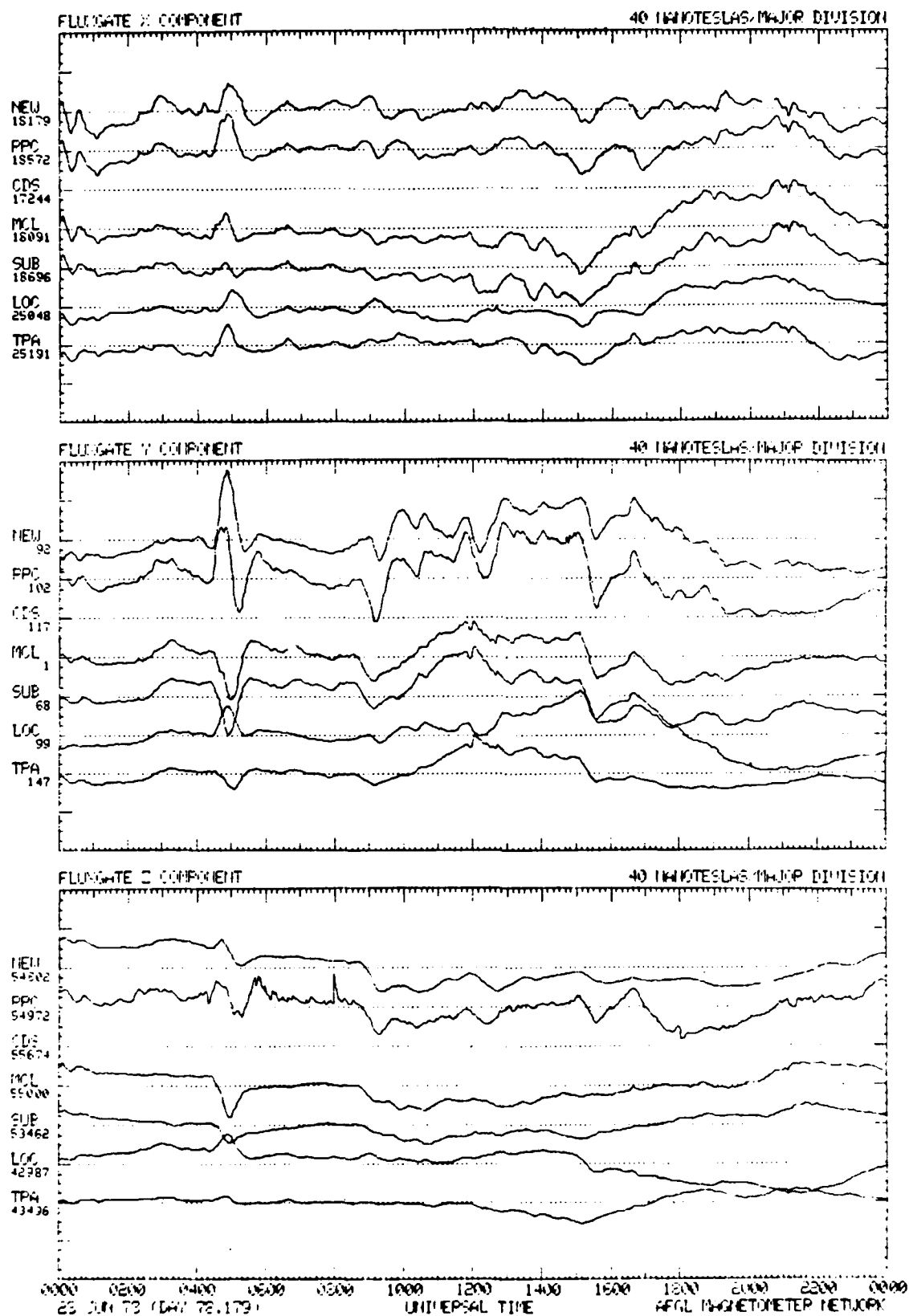
40 INKOTESLAS MAJOR DIVISION

NEU
54739
PPC
54932
CDS
55674
MCL
55024
SUB
53462
LOC
42989
TPA
43493



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 JUN 72 DAY 72.177 UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





AD-A168 759 DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE 3/5
GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS
LAB HANSON AFB MA D J KNECHT 08 JAN 85
GPO: 1980-0003

AD-A168 739 DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE 3/5
GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS
LAB HANSON AFB MA D J KNECHT 08 JAN 85
GPO: 1980-0003

AD-A168 759 DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS LAB HANSON AFB MA D J KNECHT 08 JAN 85 3/5
UNCLASSIFIED

UNCLASSIFIED AFGL-TR-85-0027 F/G 8/14 NL

UNCLASSIFIED AFGL-TR-85-0027 F/G 8/14 NL

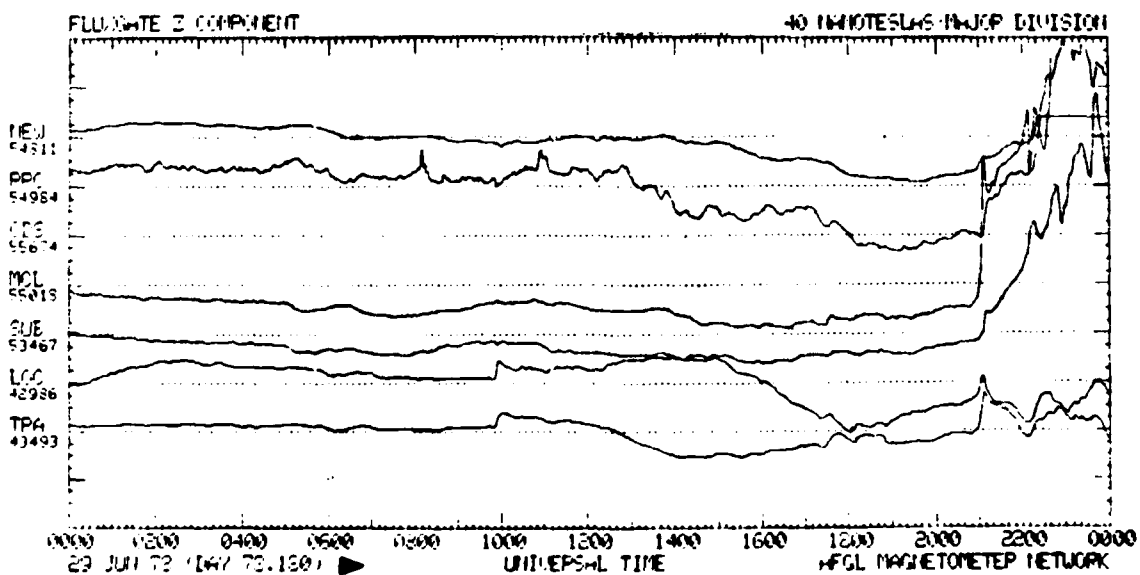
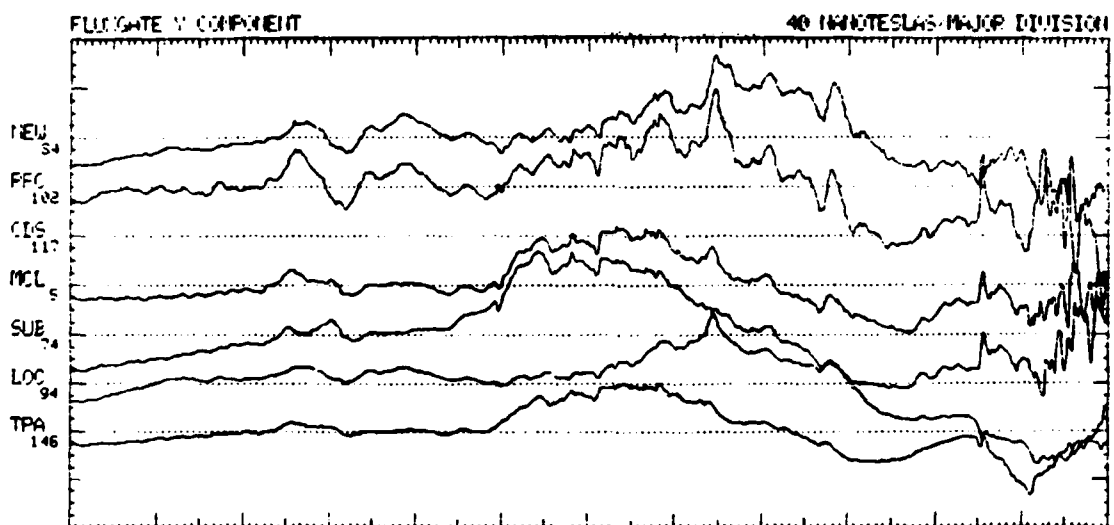
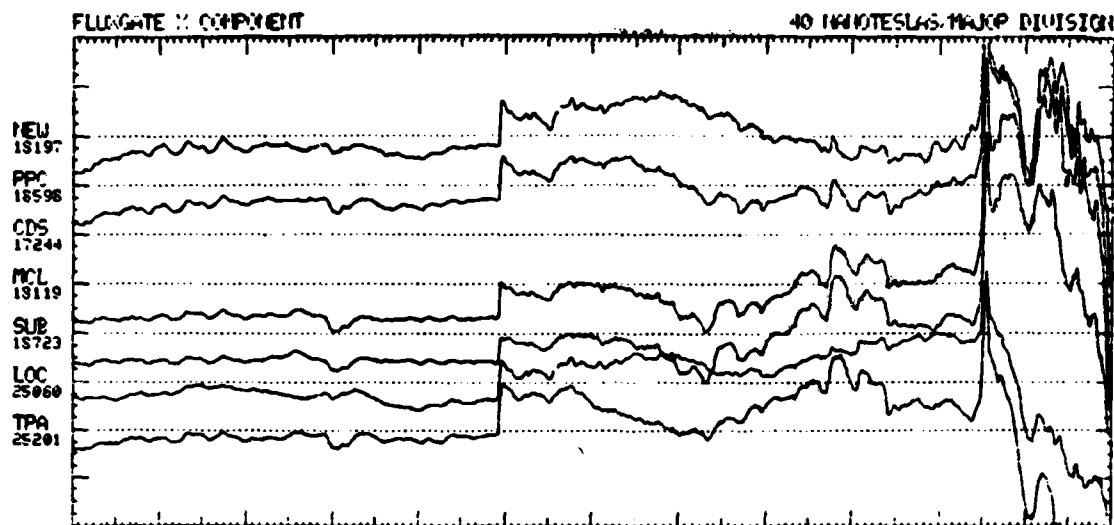
UNCLASSIFIED AFGL-TR-85-0027 F/G 8/14 NL

UNCLASSIFIED AFGL-TR-85-0027 F/G 8/14 NL

A 10x10 grid of squares, with the top-left square missing, representing a 10x10 grid with a 1x1 hole.



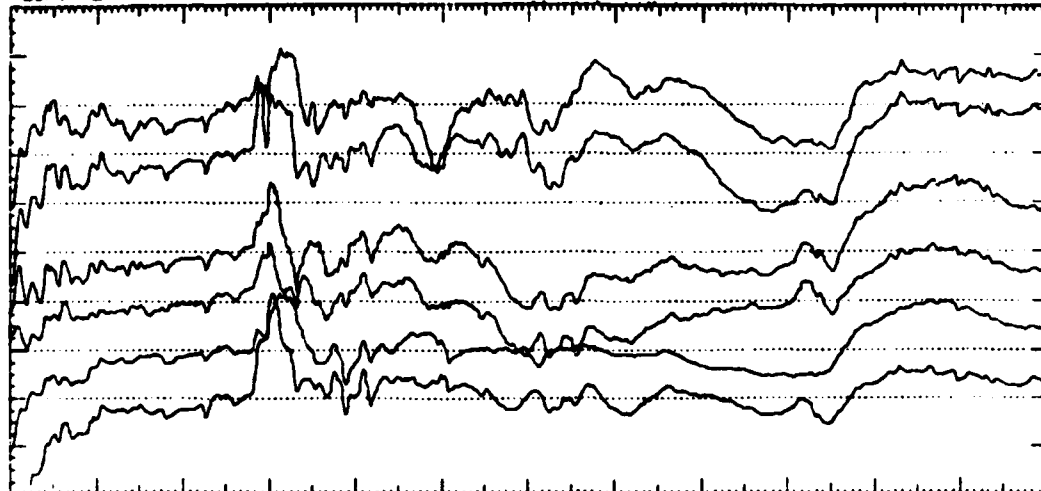
GROUP 1



FLUGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

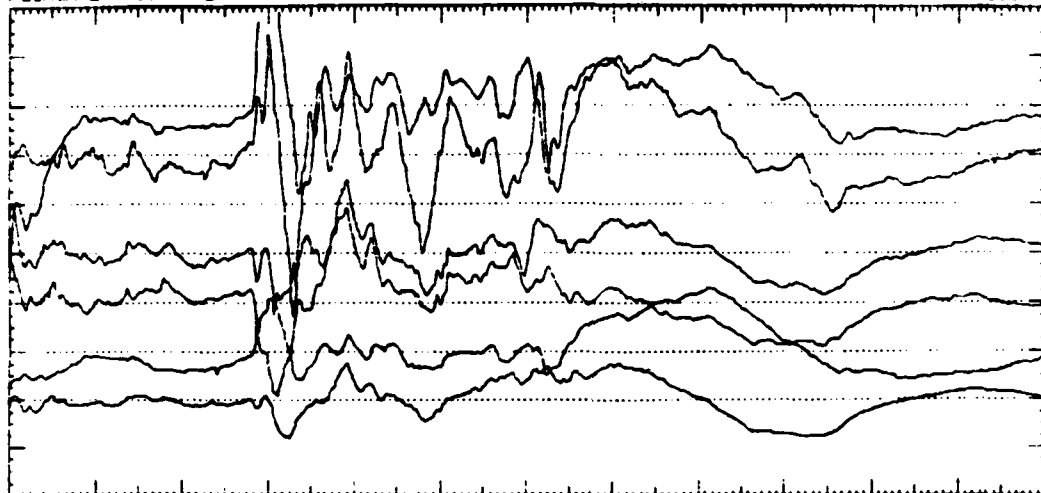
NEW
15159
PPC
15559
CDS
17244
MCL
16064
SUB
15670
LOC
25020
TPA
25164



FLUGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

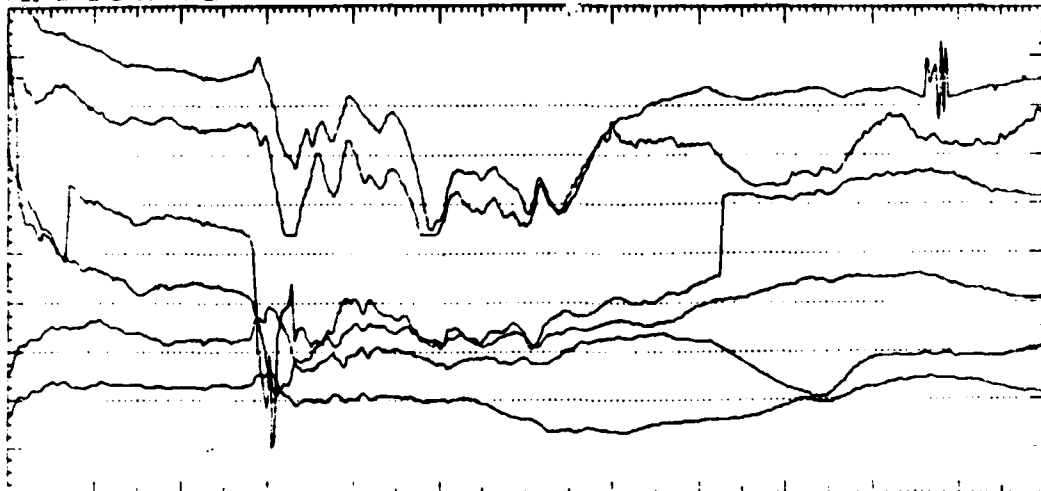
NEW
90
PPC
102
CDS
117
MCL
-1
SUB
6
LOC
105
TPA
143



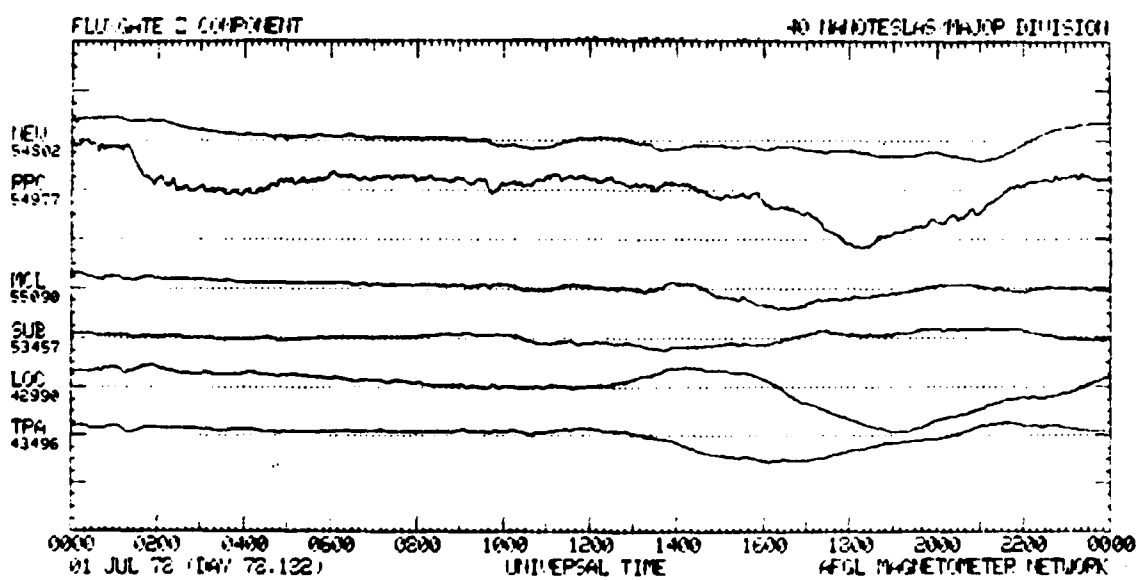
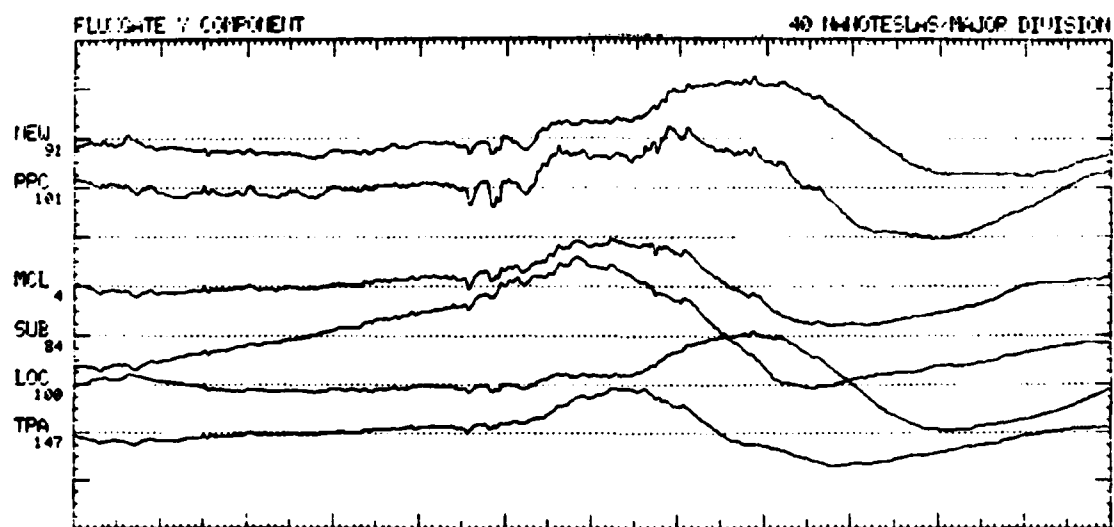
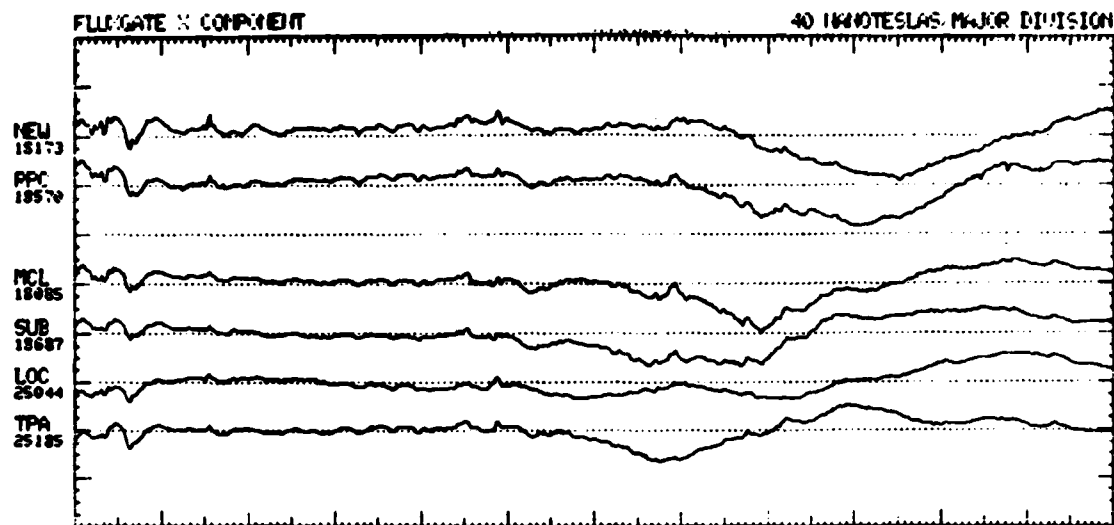
FLUGATE Z COMPONENT

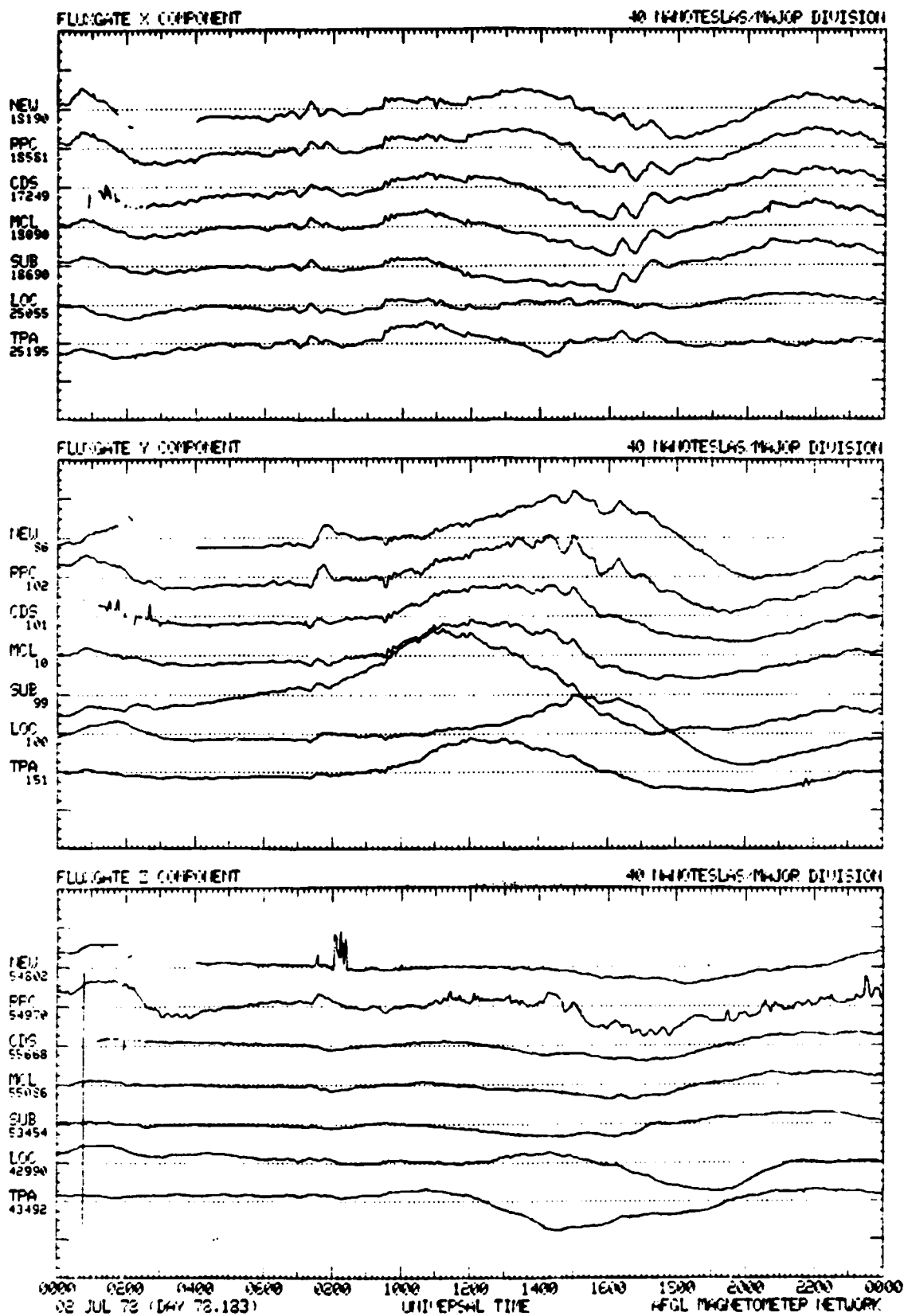
40 NANOTESLAS/MAJOR DIVISION

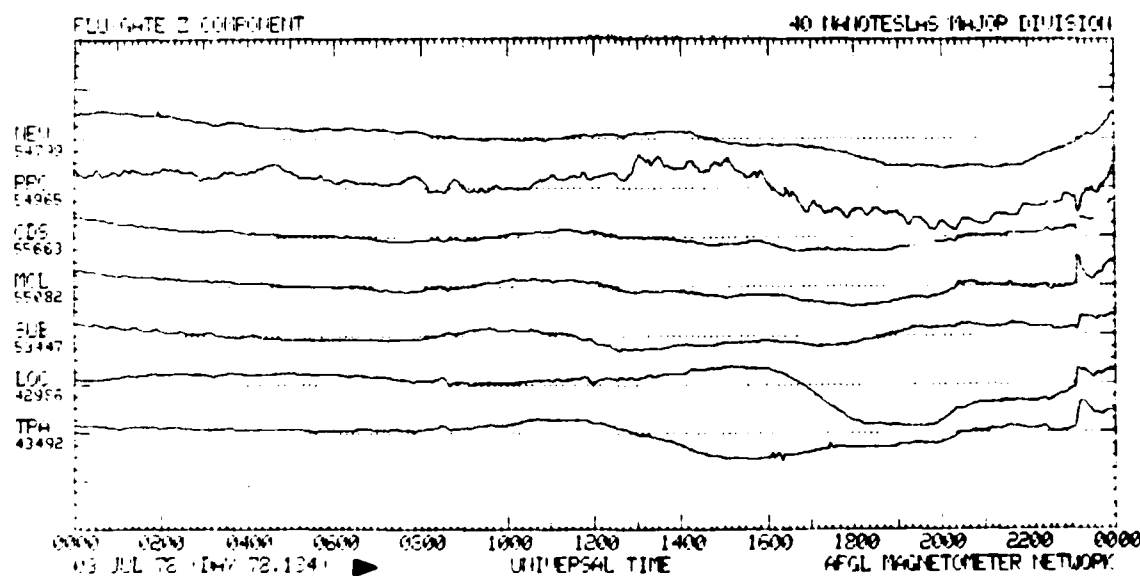
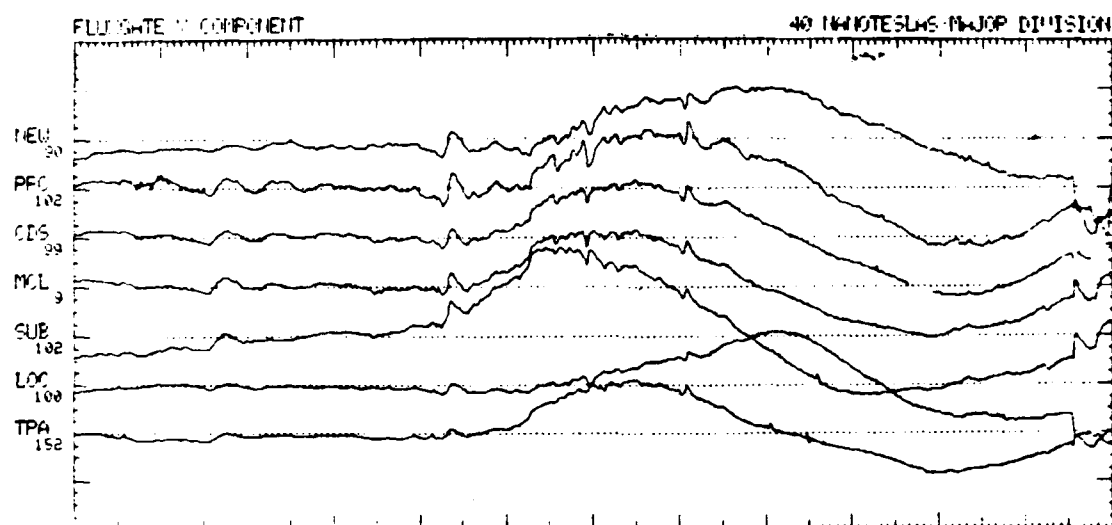
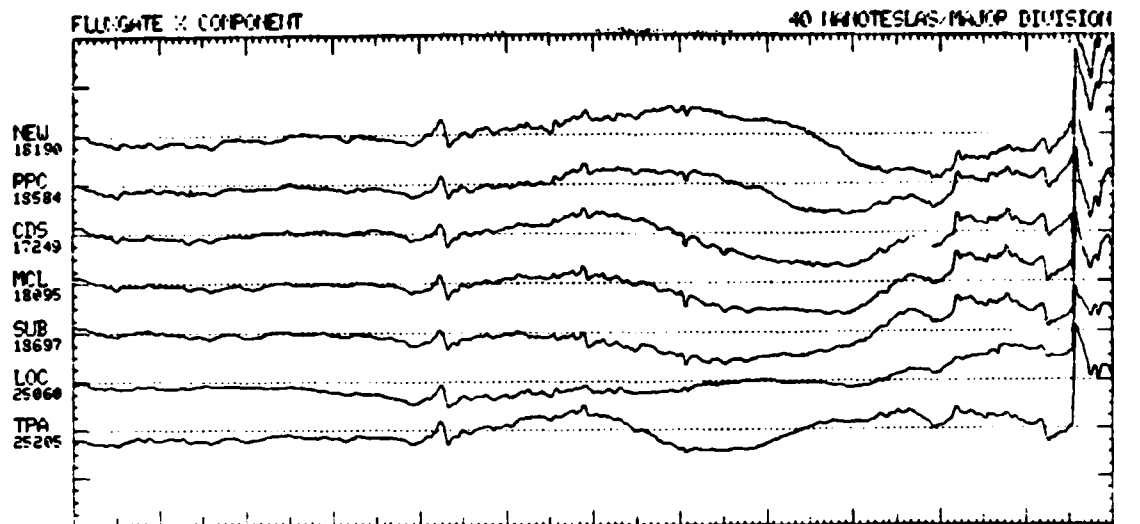
NEW
54796
PPC
54977
CDS
55674
MCL
55056
SUB
53457
LOC
42998
TPA
43500

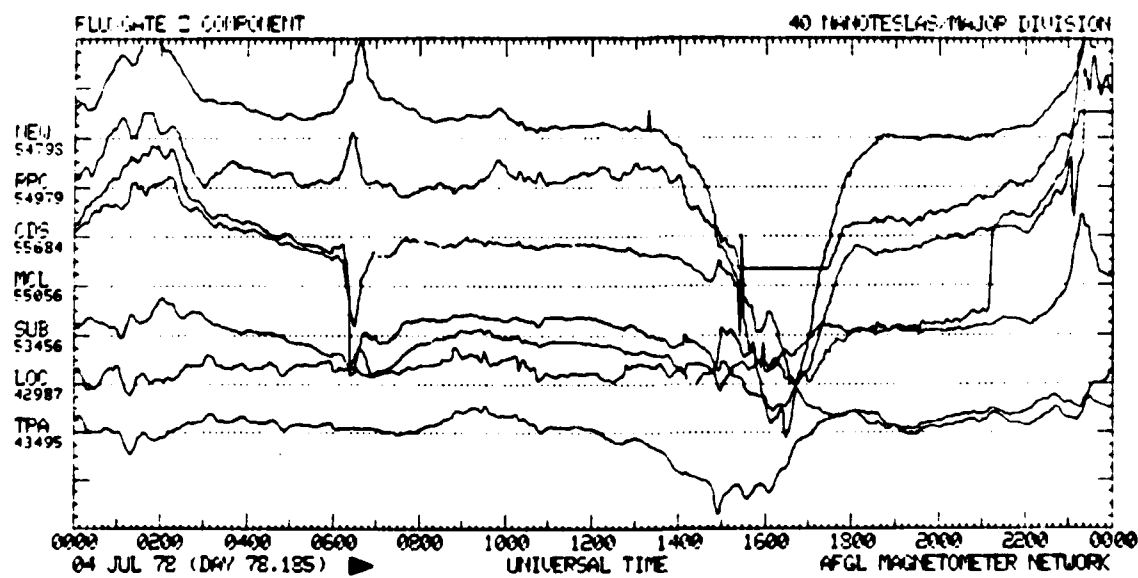
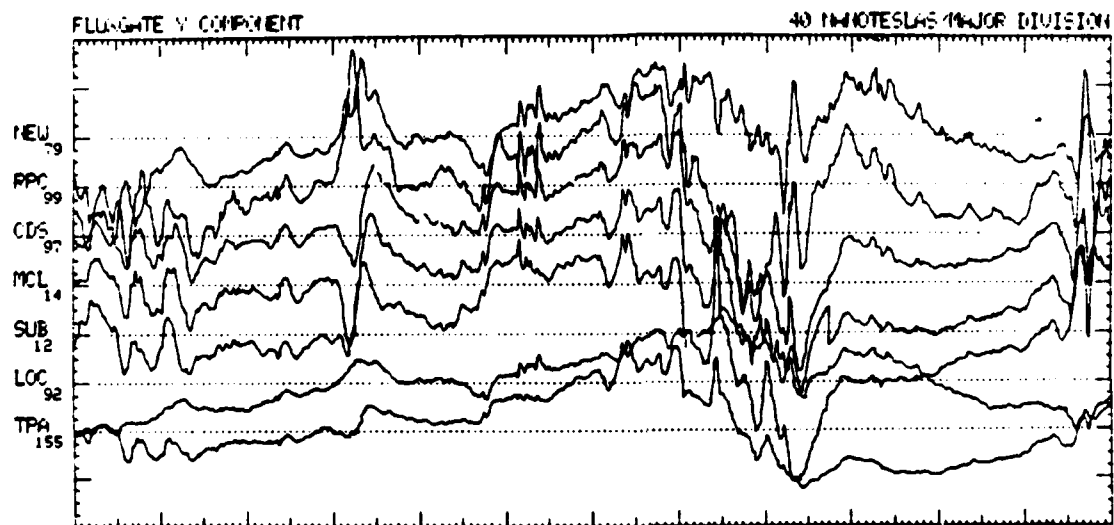
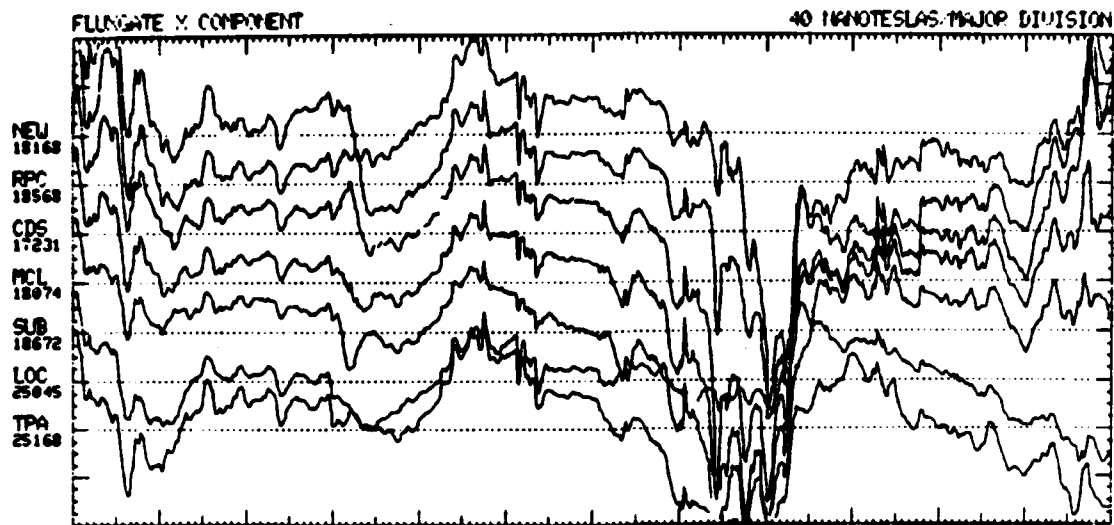


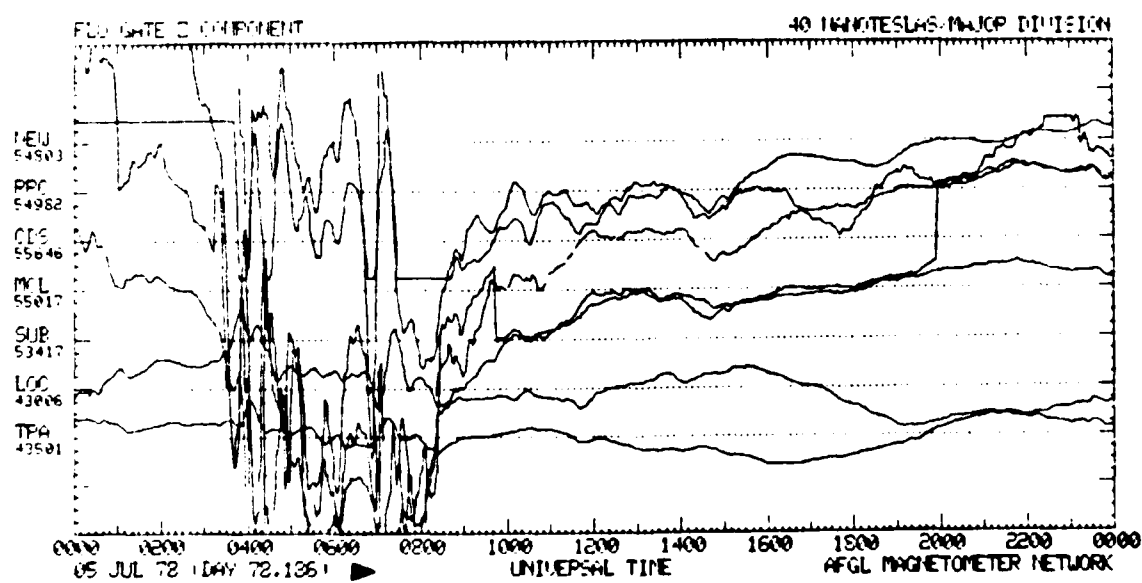
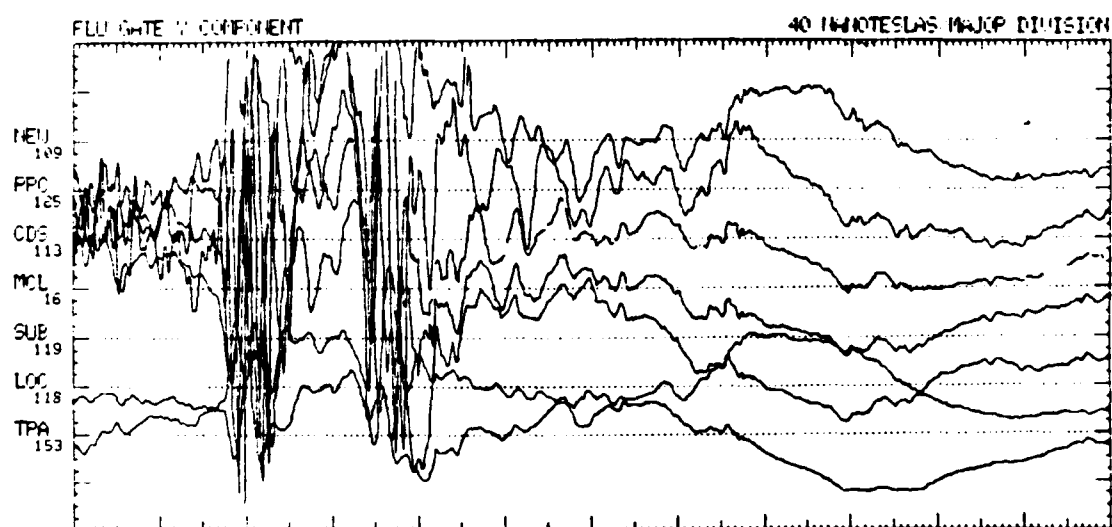
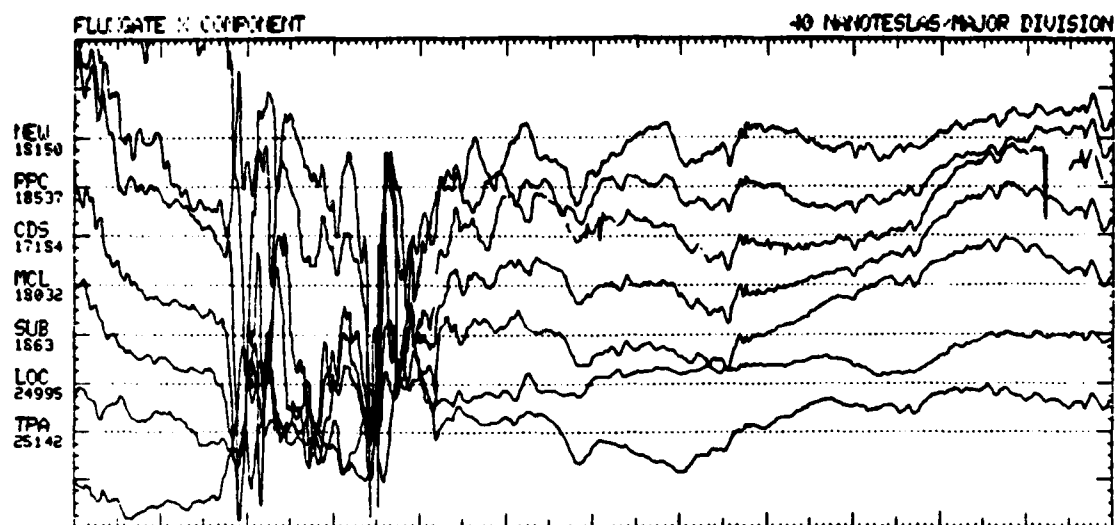
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30 JUL 73 (DAY 73.131) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

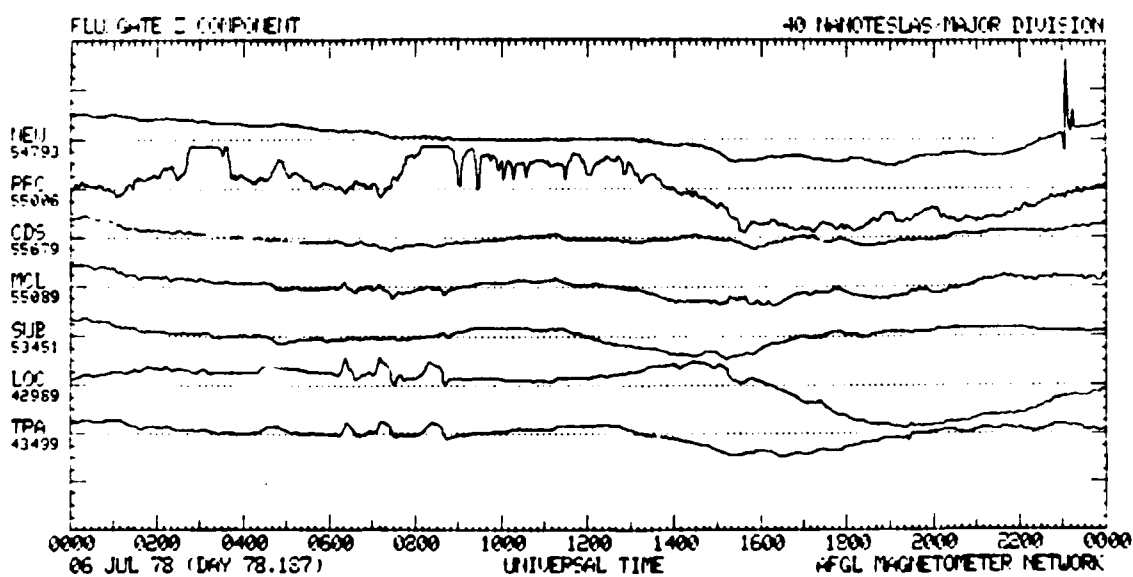
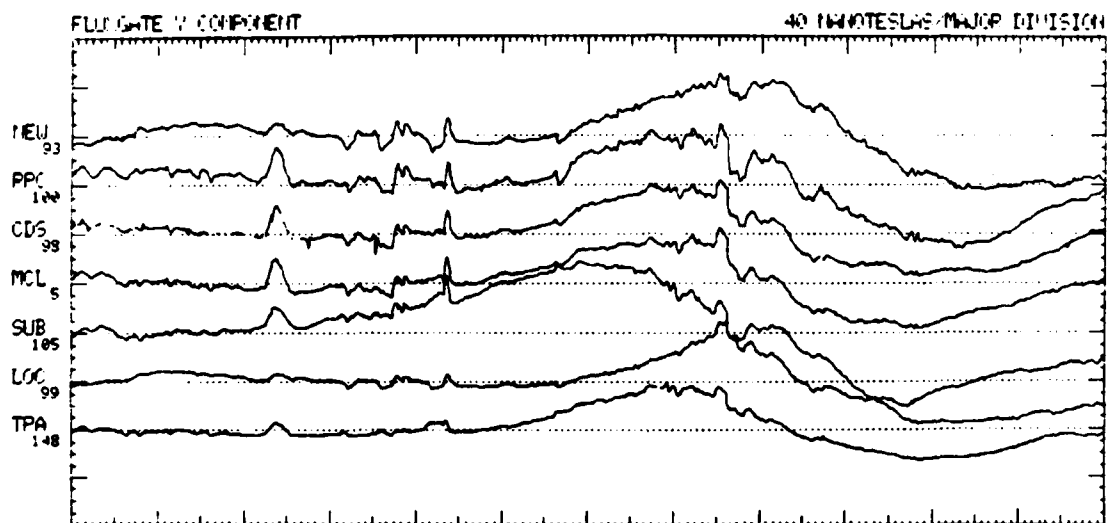
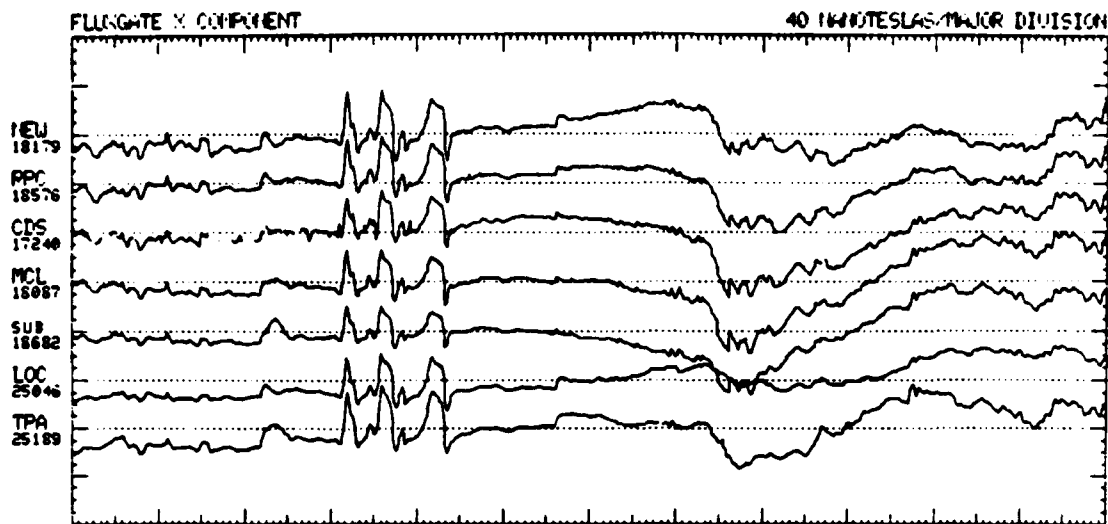


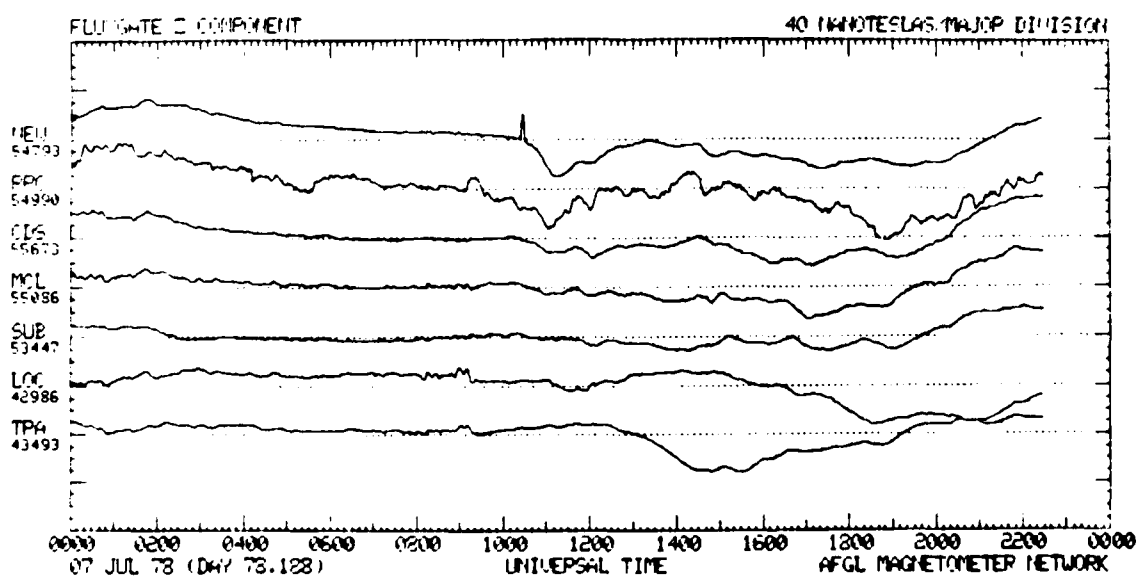
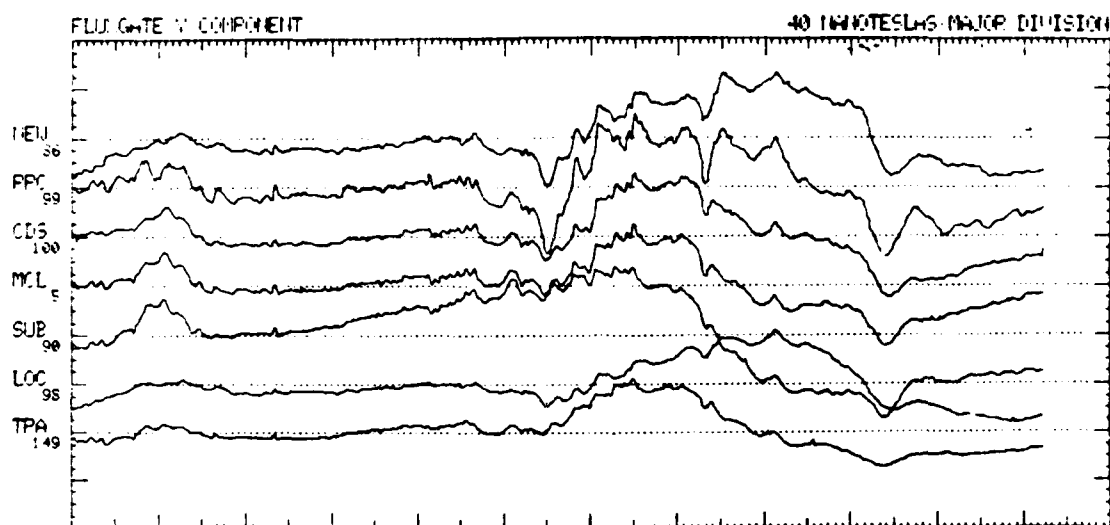
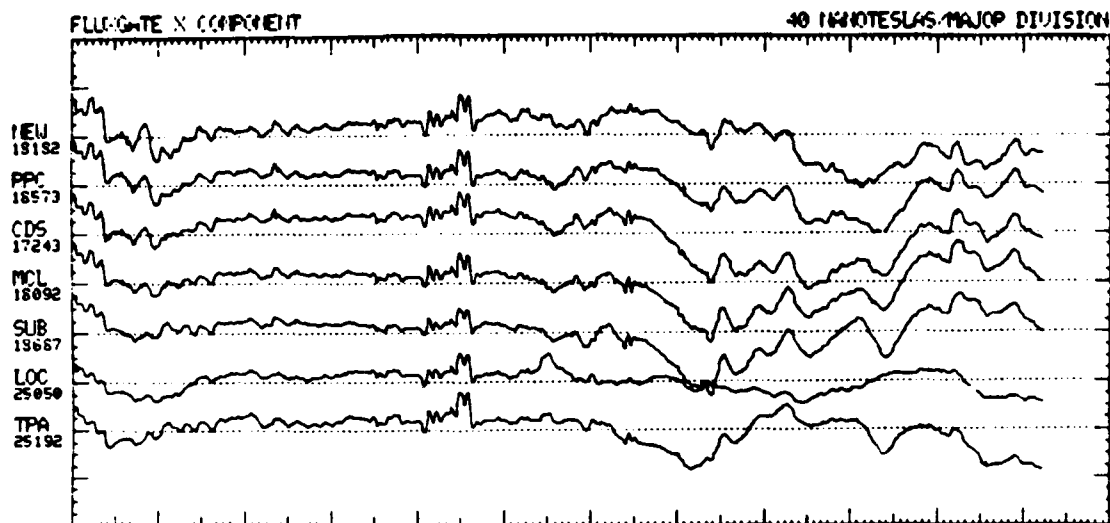








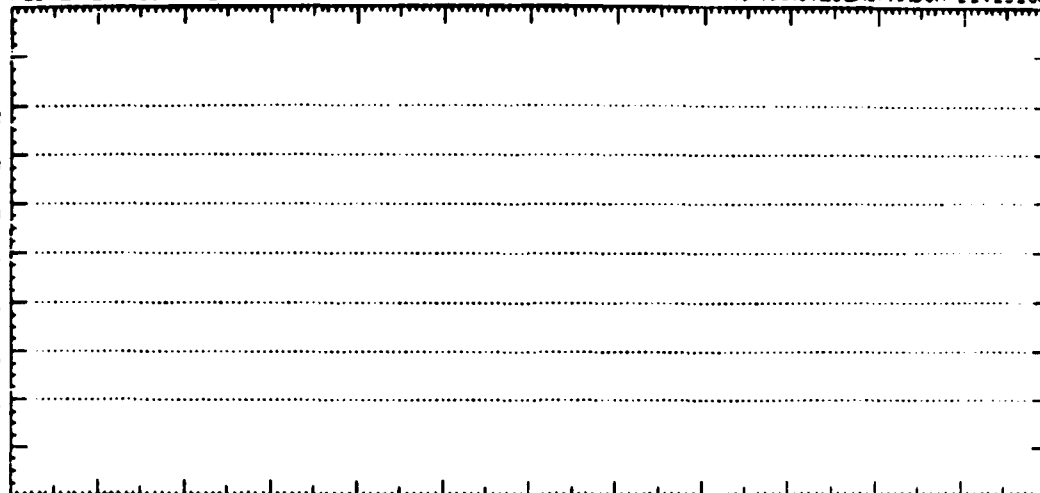




FLIGHT X COMPONENT

40 MINUTES/LAS MAJOR DIVISION

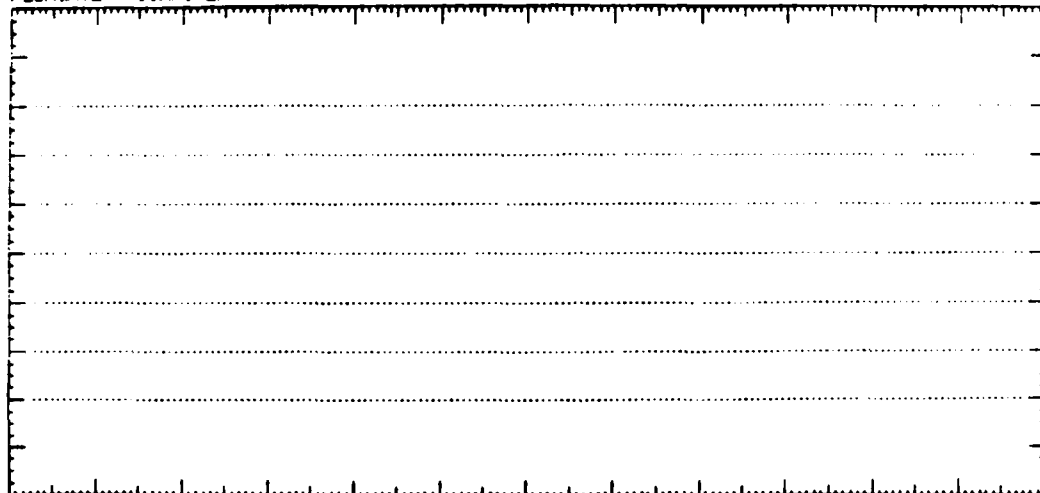
NEU
18192
RPC
18573
CDS
17243
MCL
18092
SUB
18687
LOC
25050
TPA
25192



FLIGHT Y COMPONENT

40 MINUTES/LAS MAJOR DIVISION

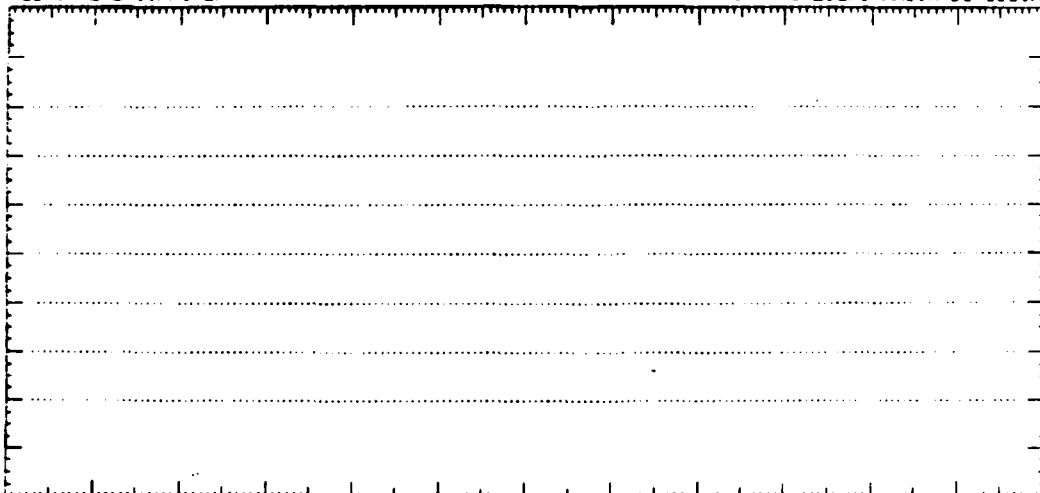
NEU
98
RPC
99
CDS
100
MCL
5
SUB
90
LOC
98
TPA
149



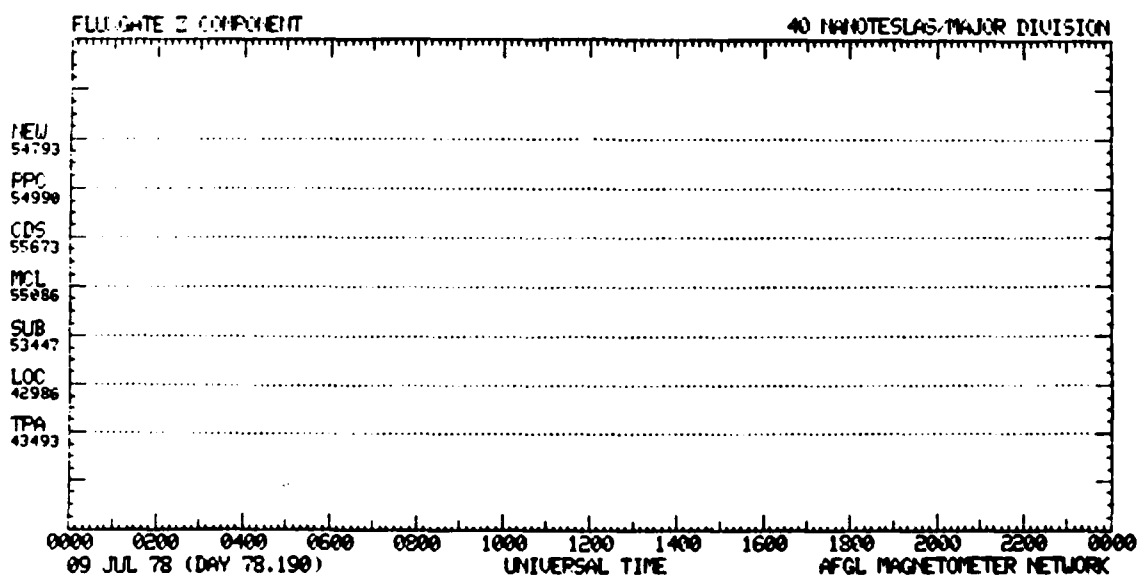
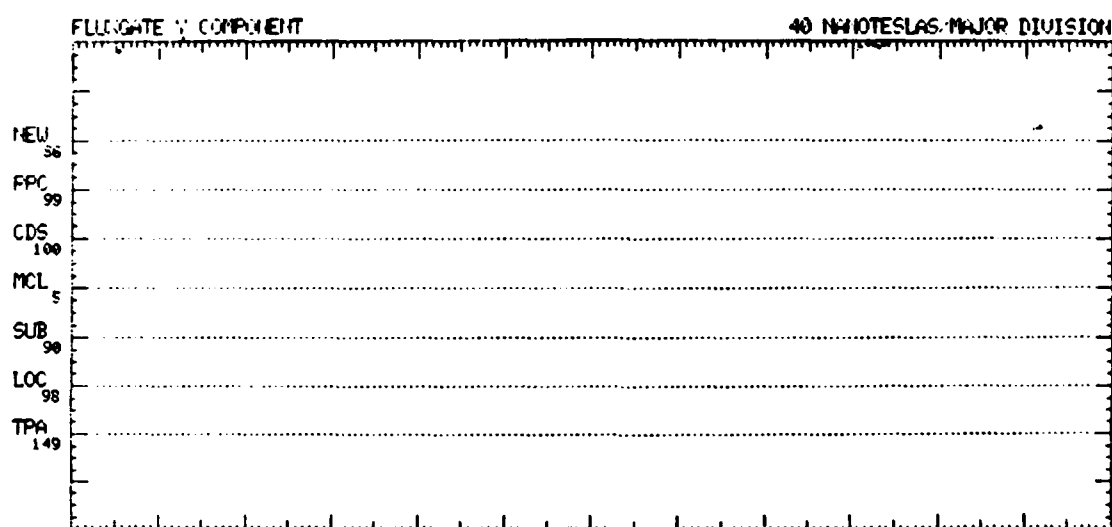
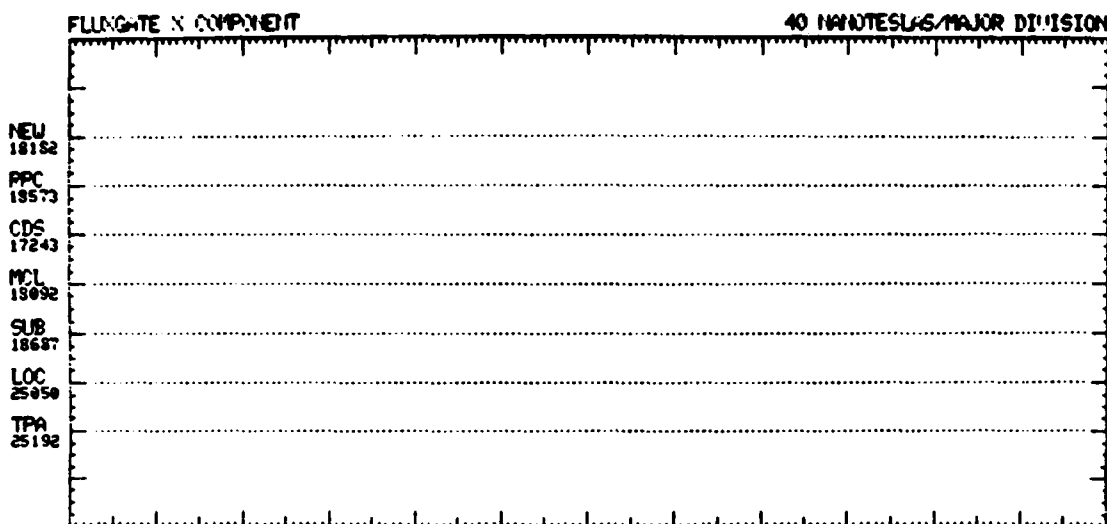
FLIGHT Z COMPONENT

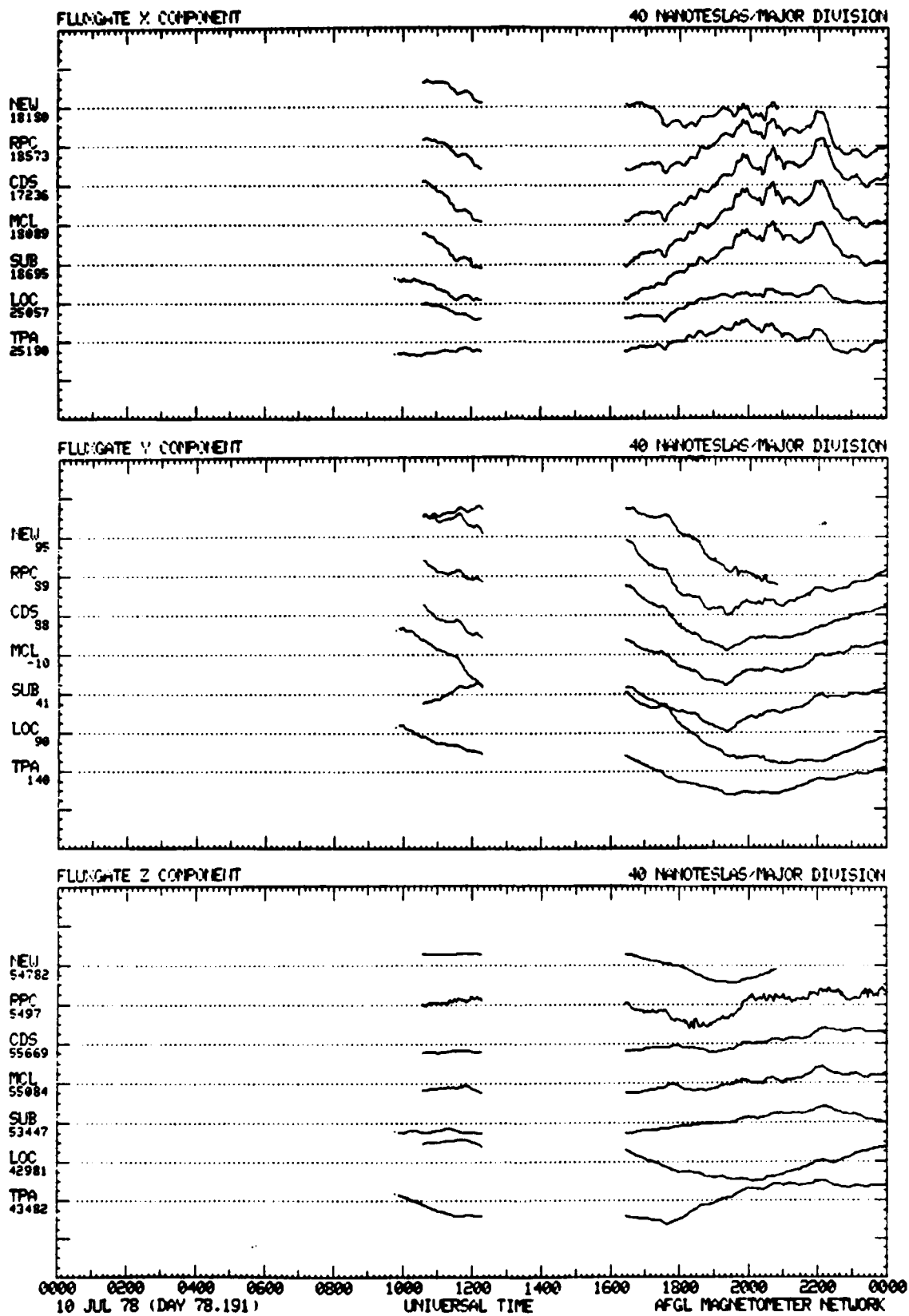
40 MINUTES/LAS MAJOR DIVISION

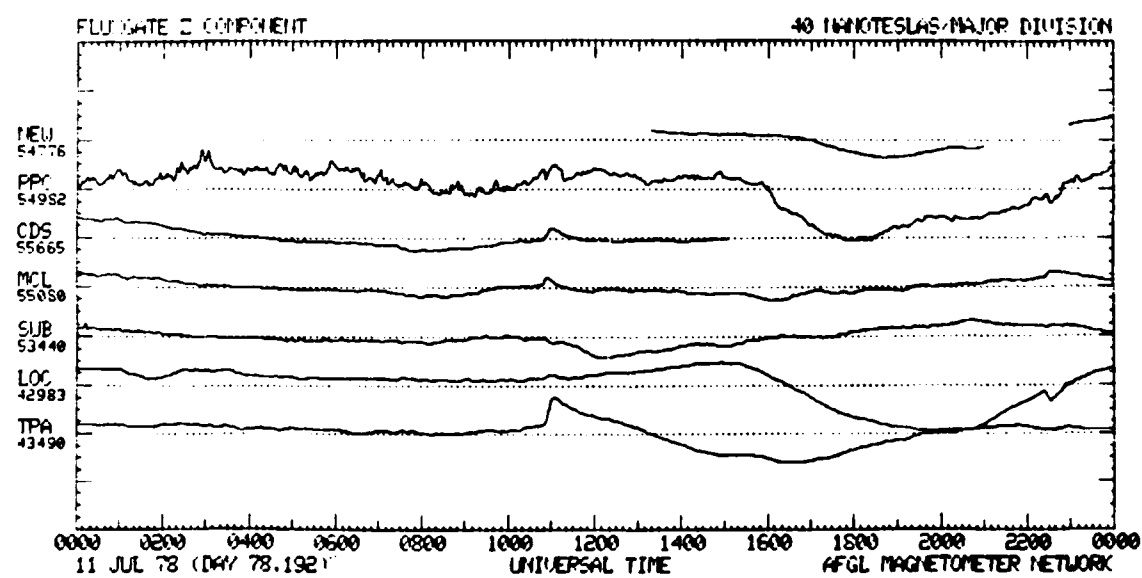
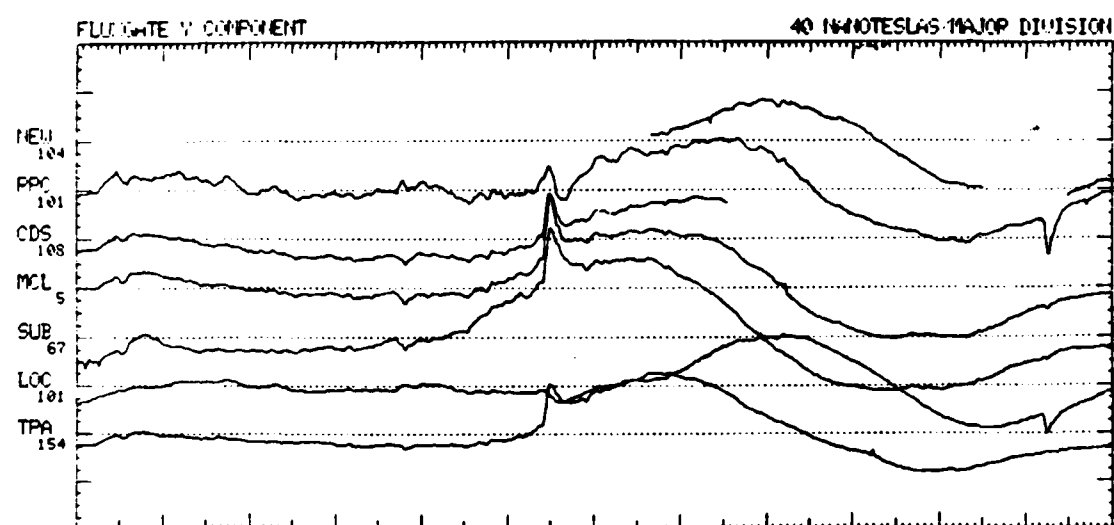
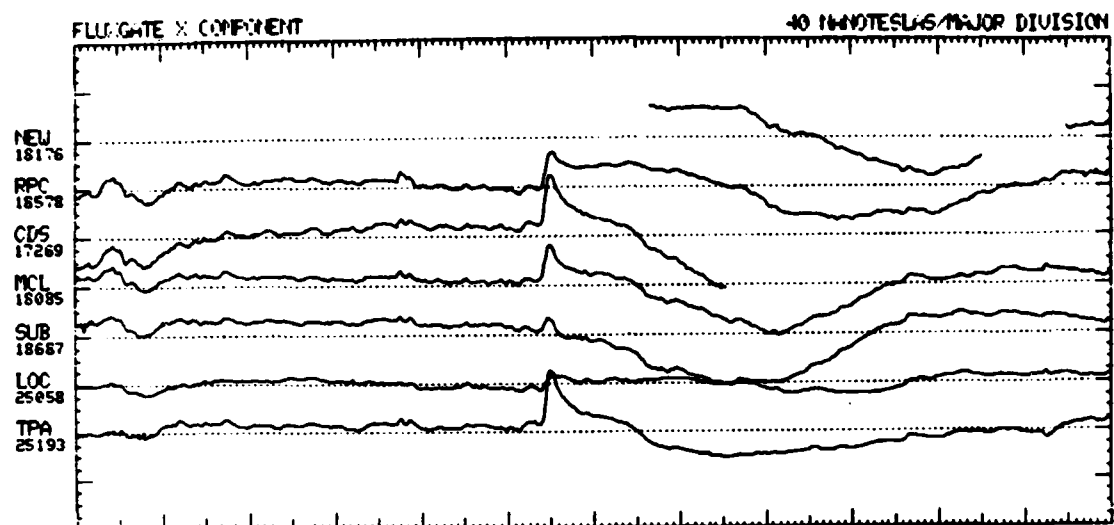
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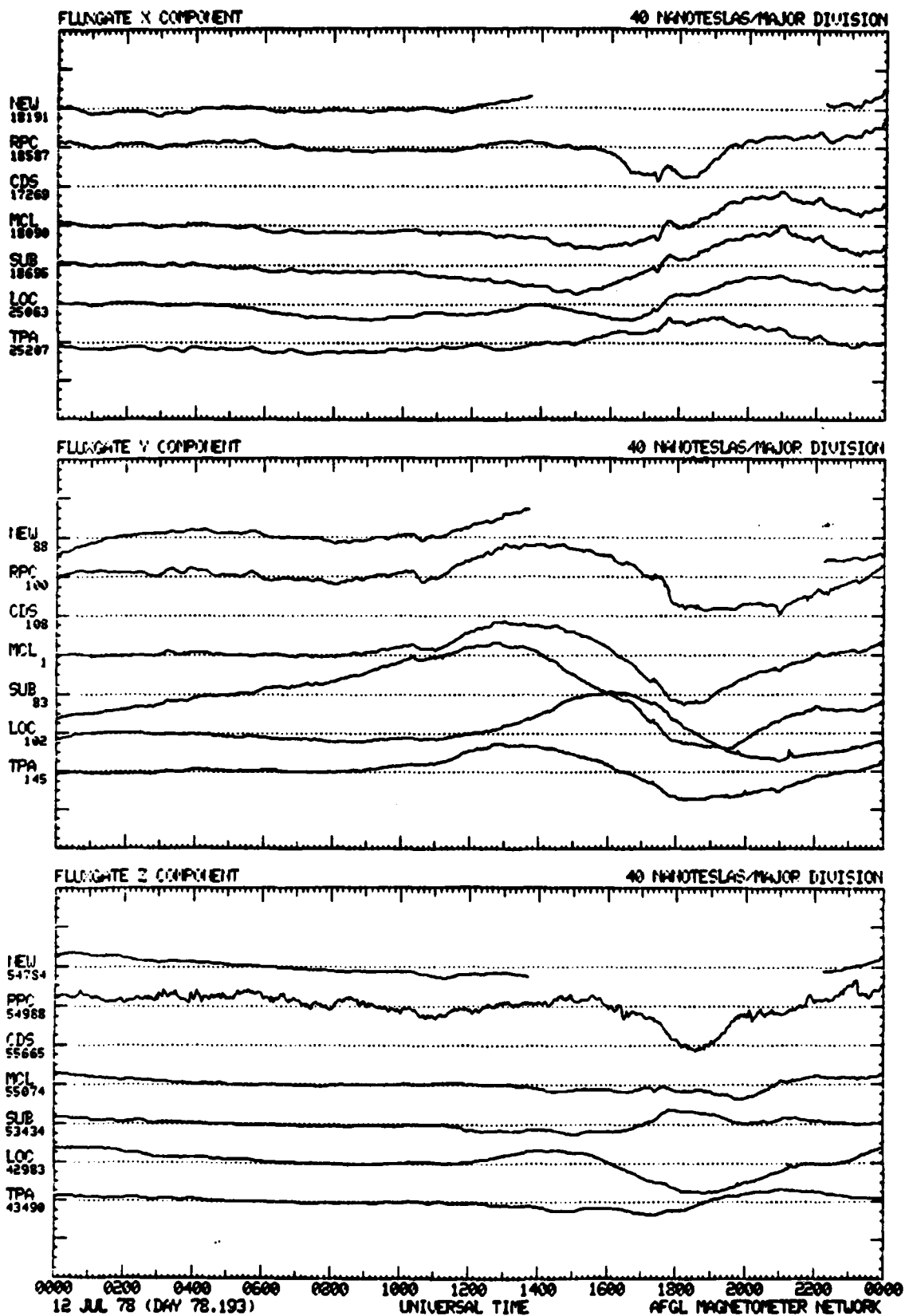


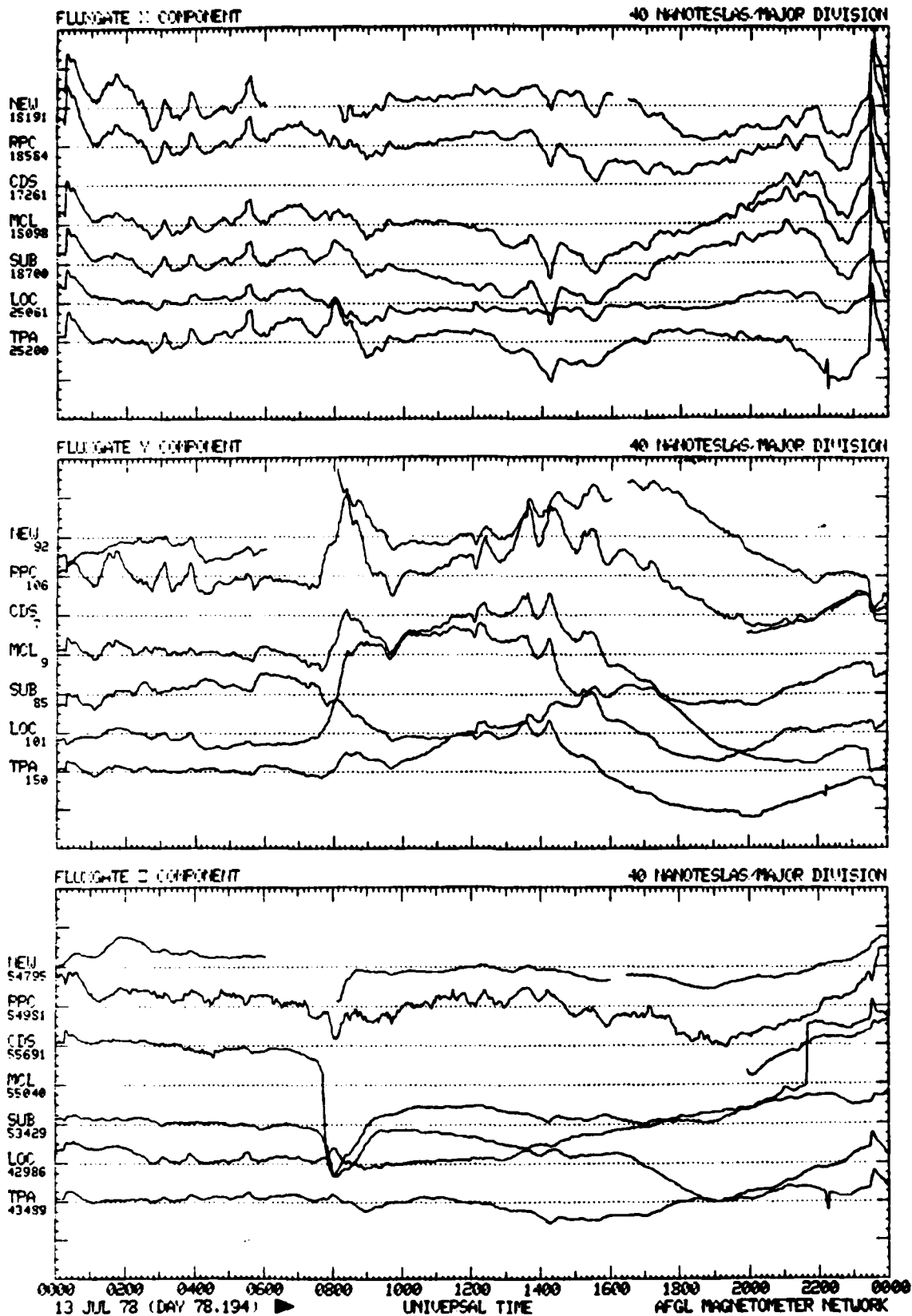
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08 JUL 78 (DAY 78.189) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

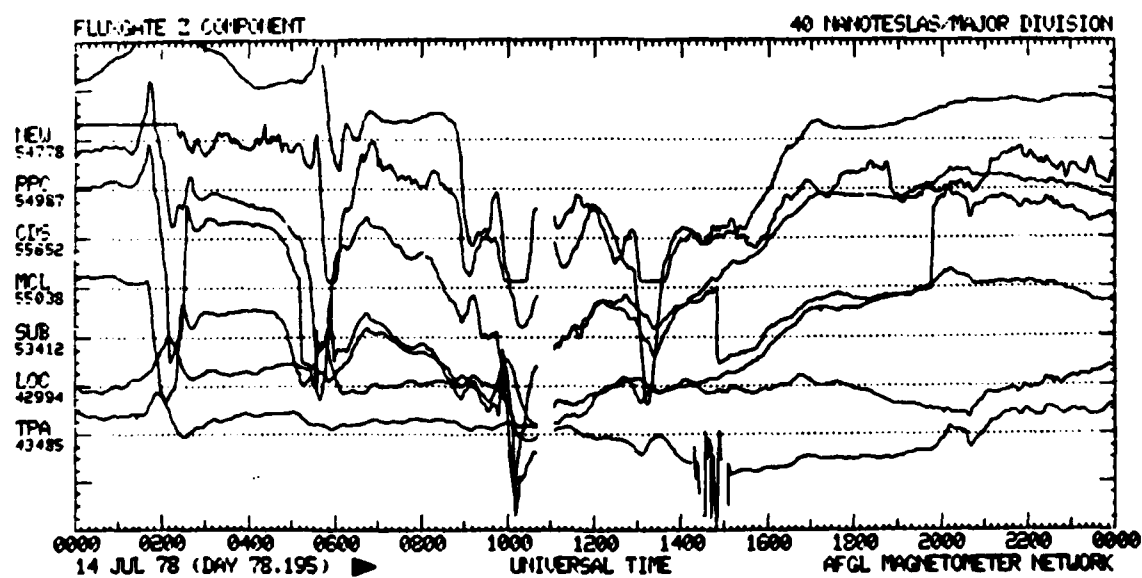
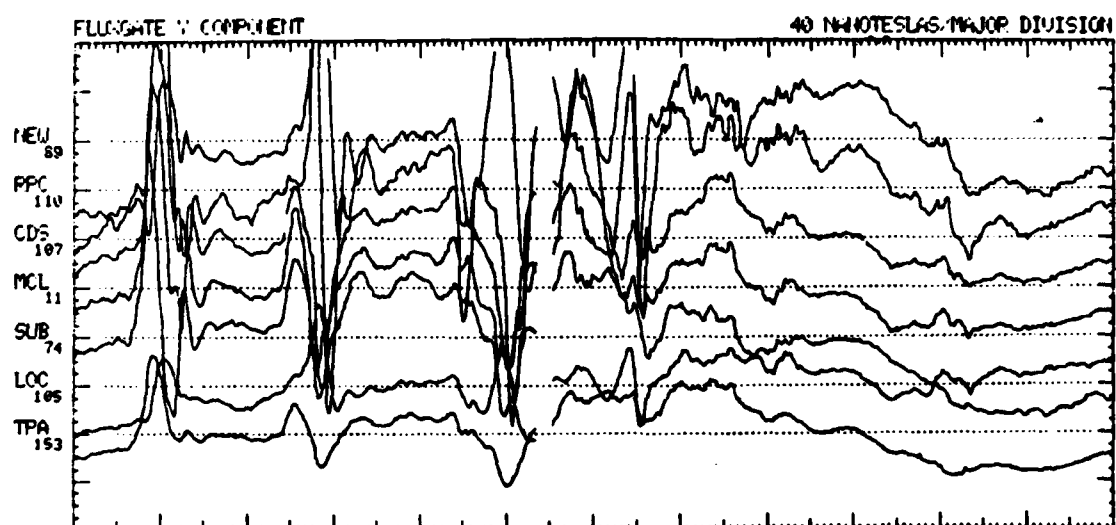
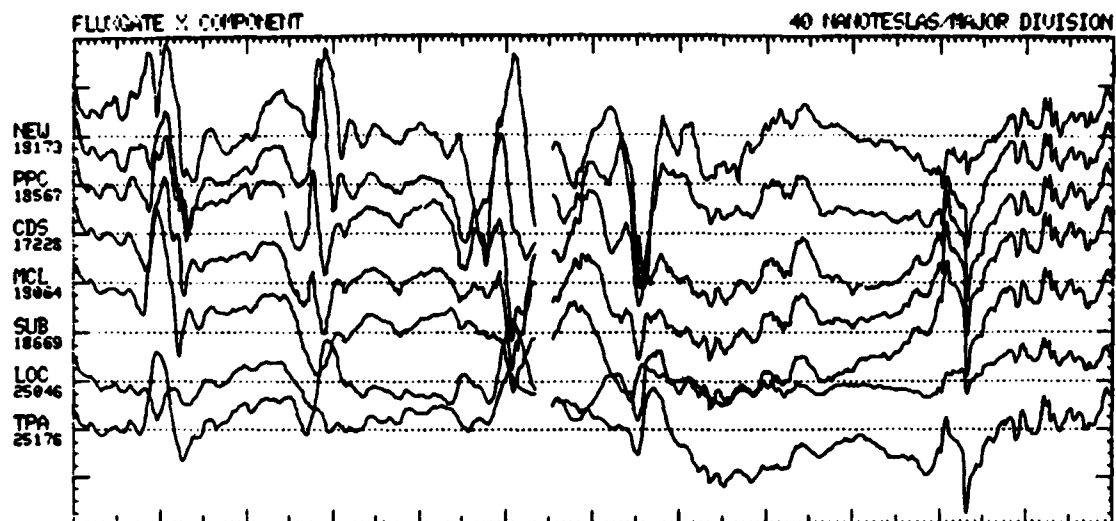


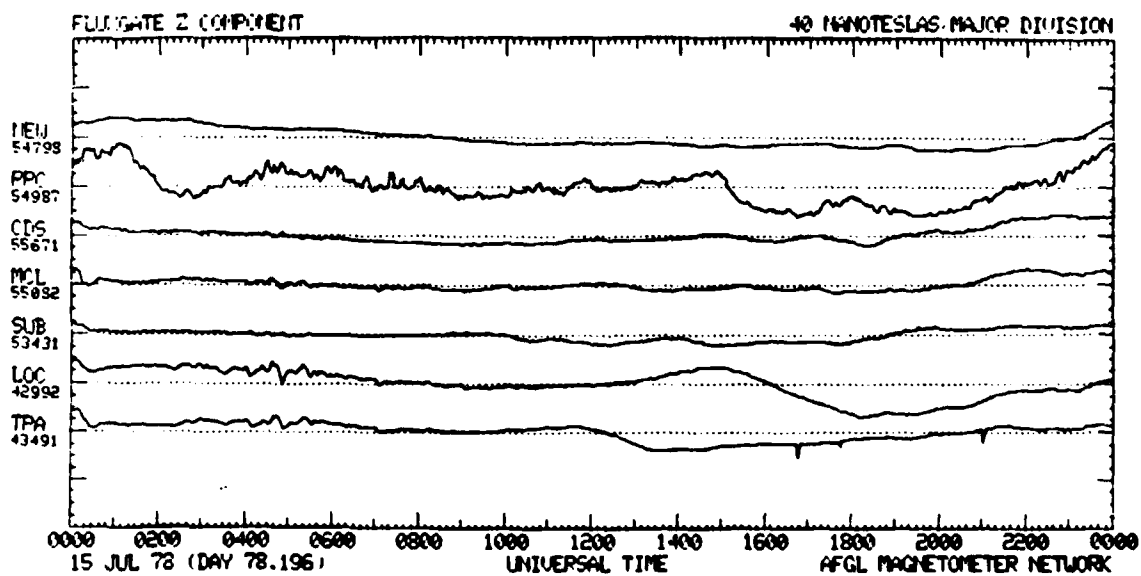
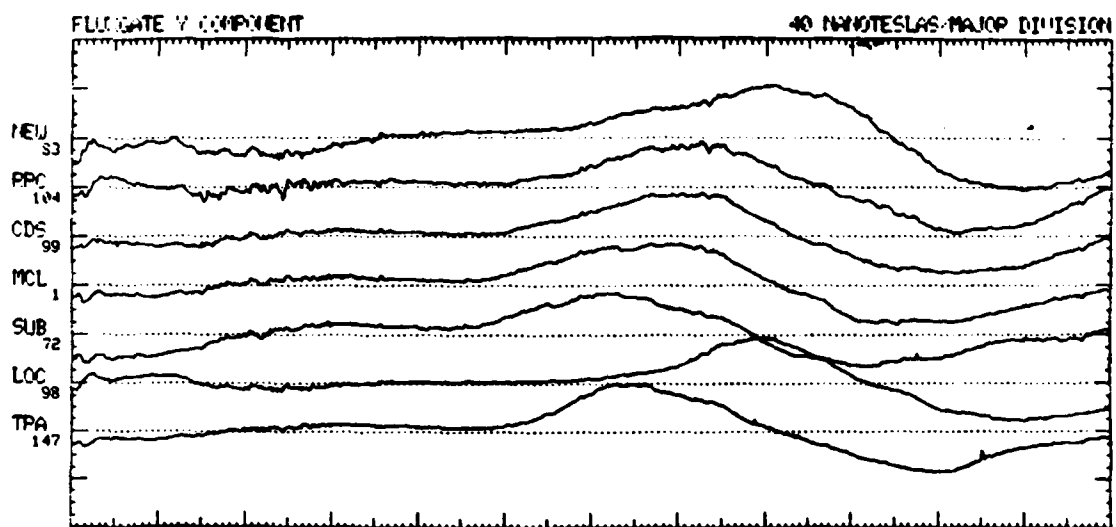
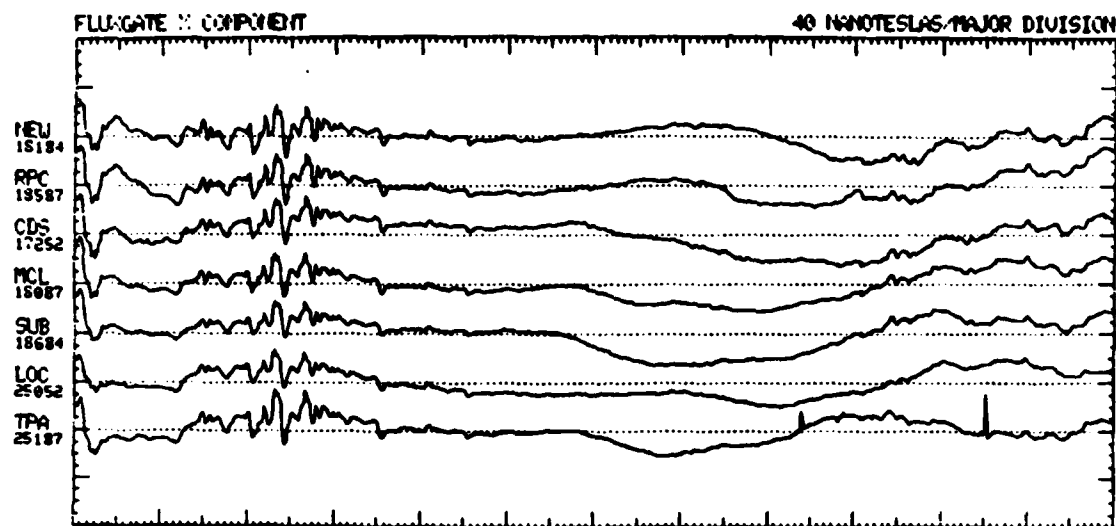


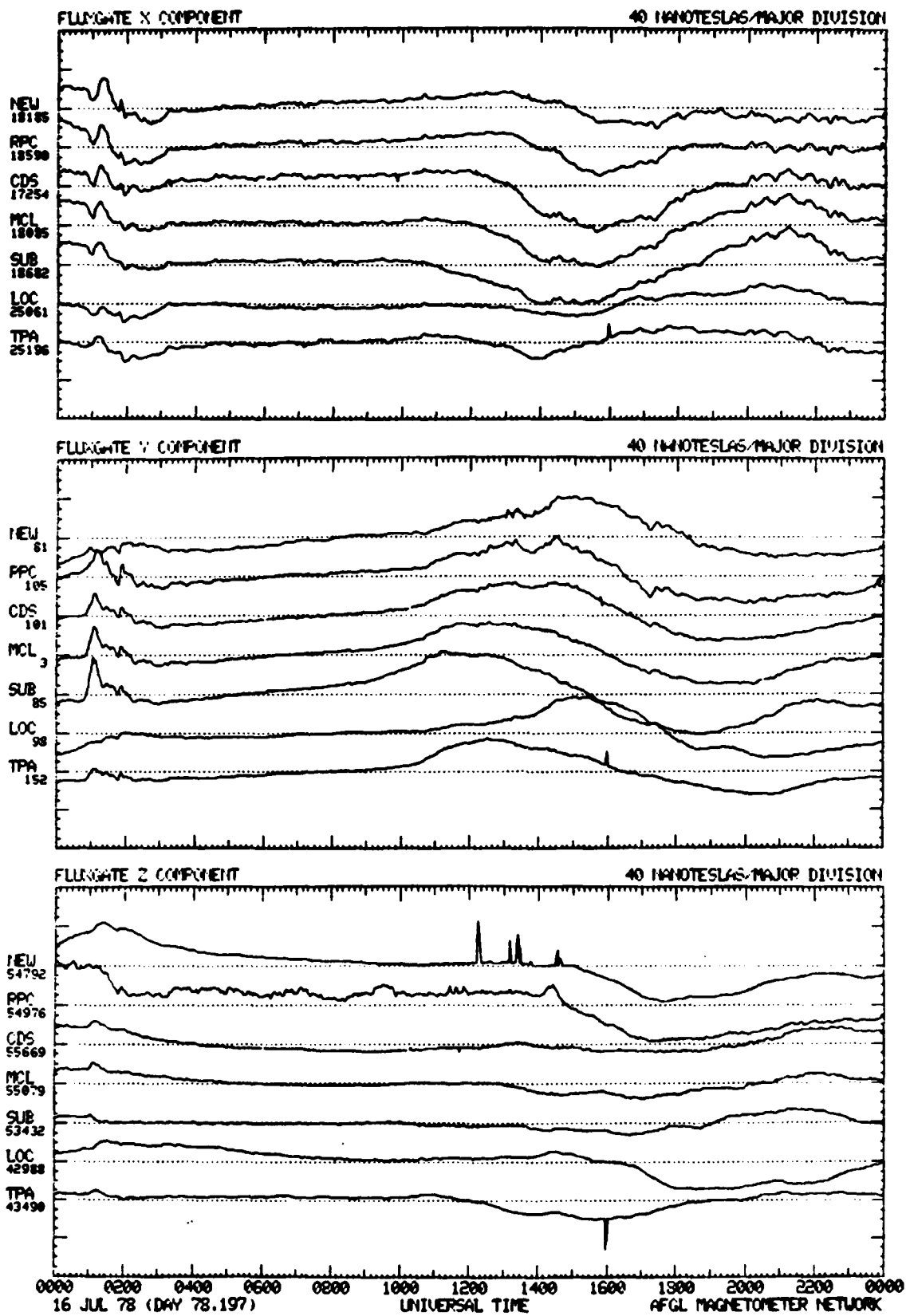


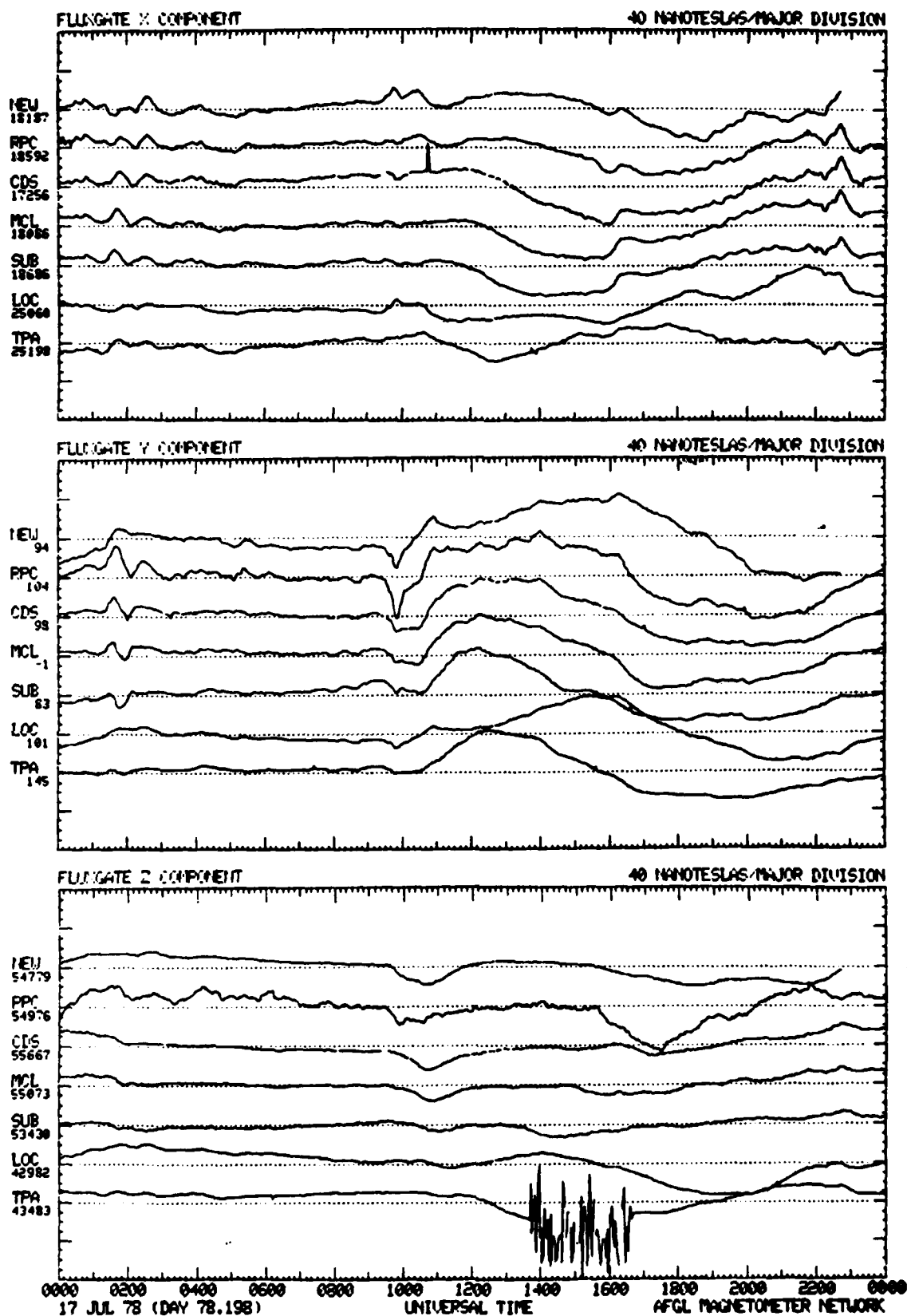


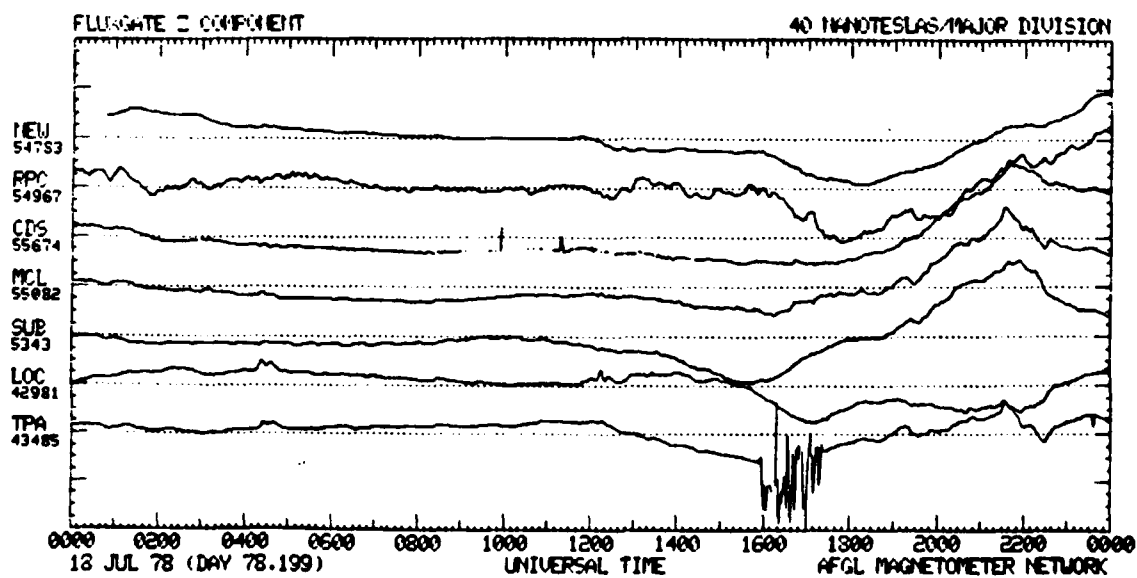
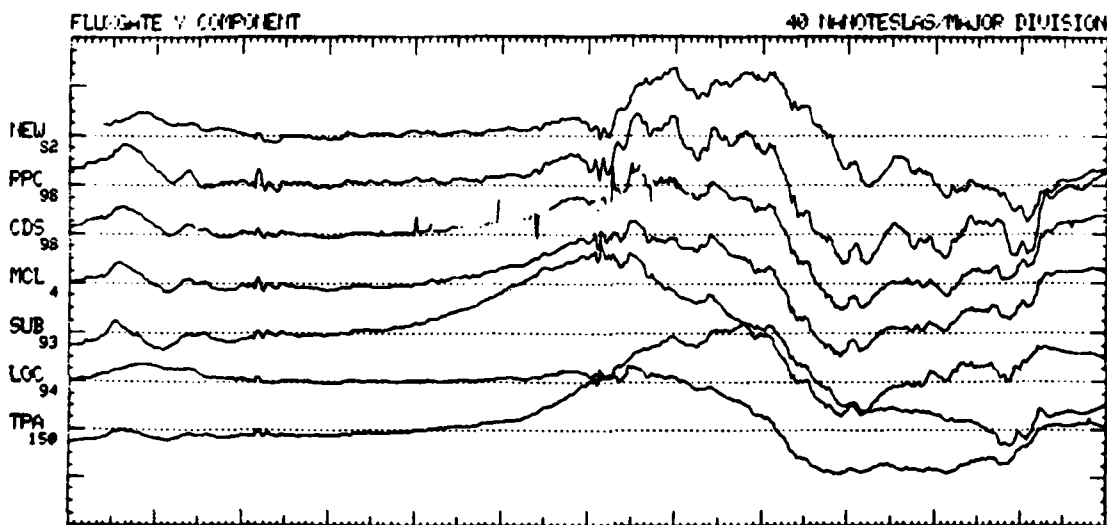
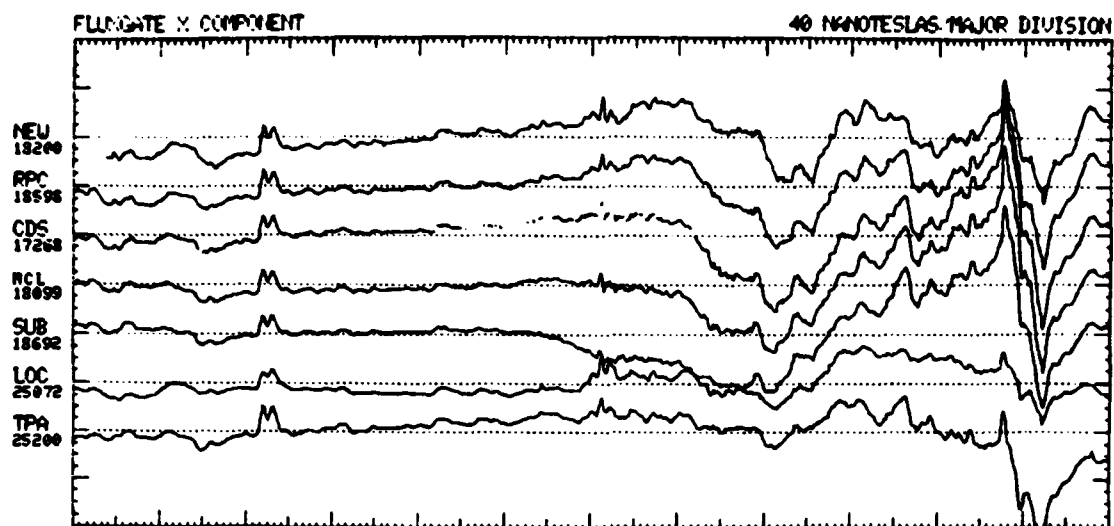


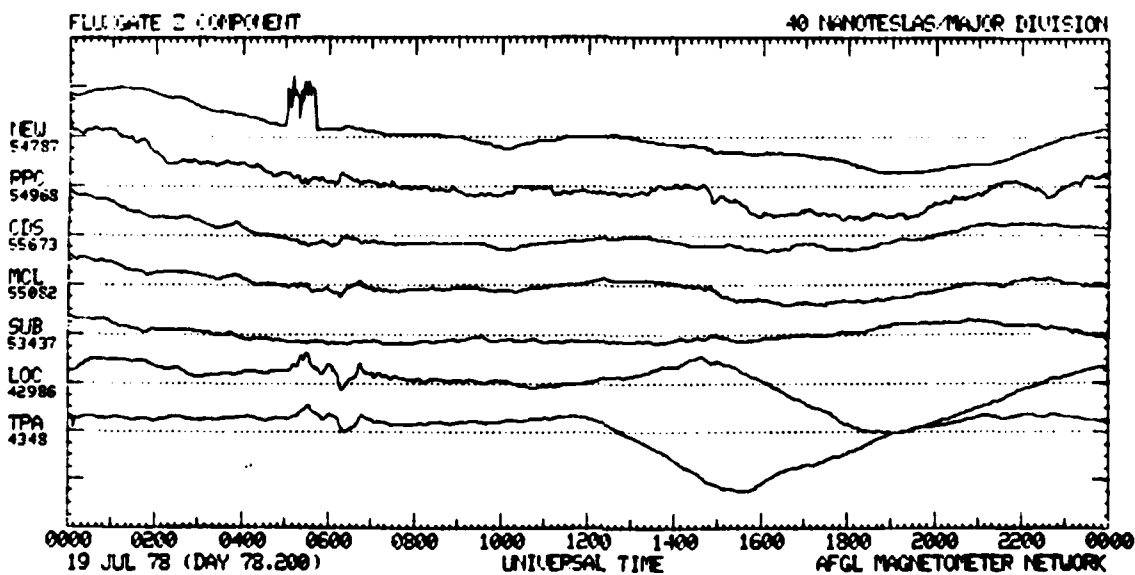
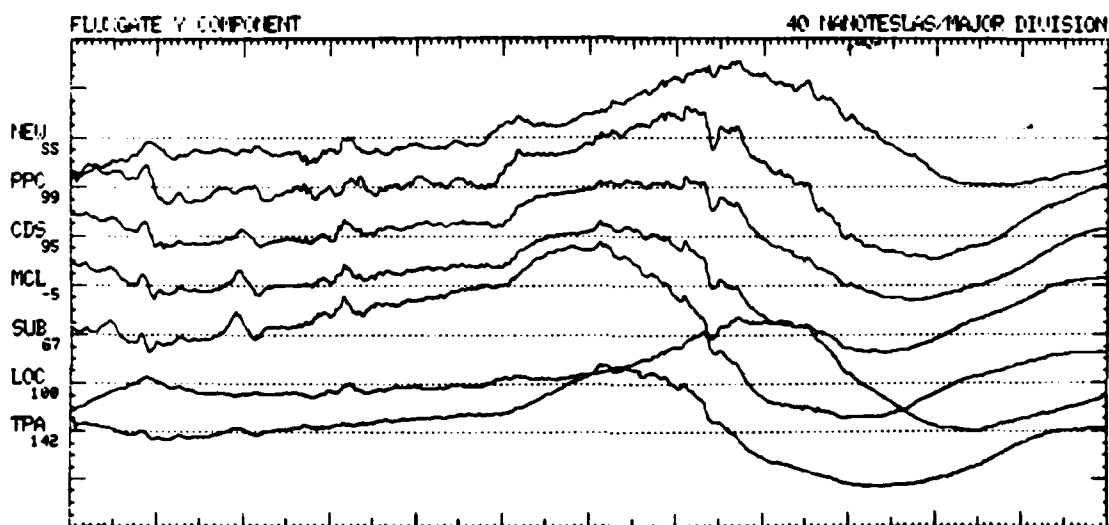
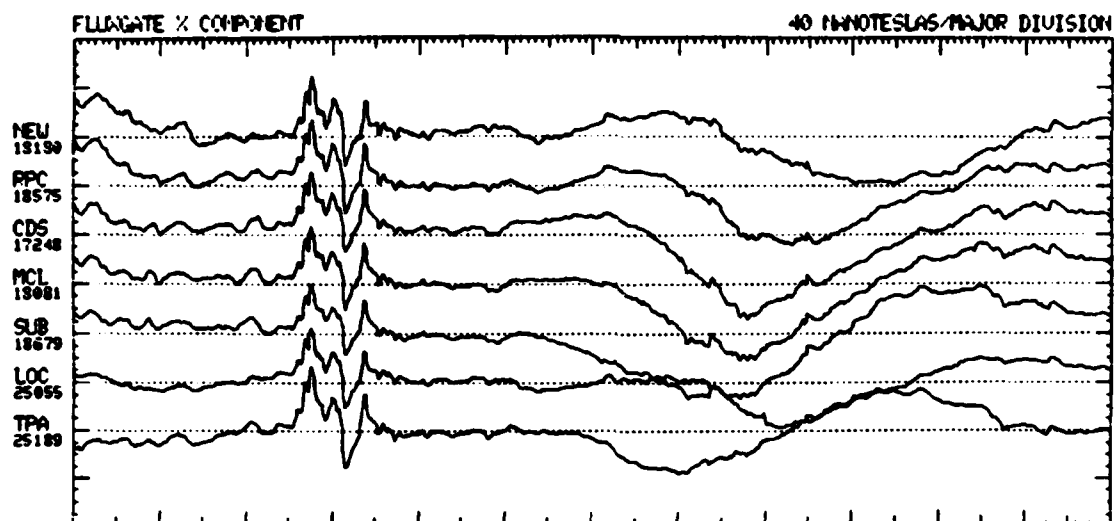


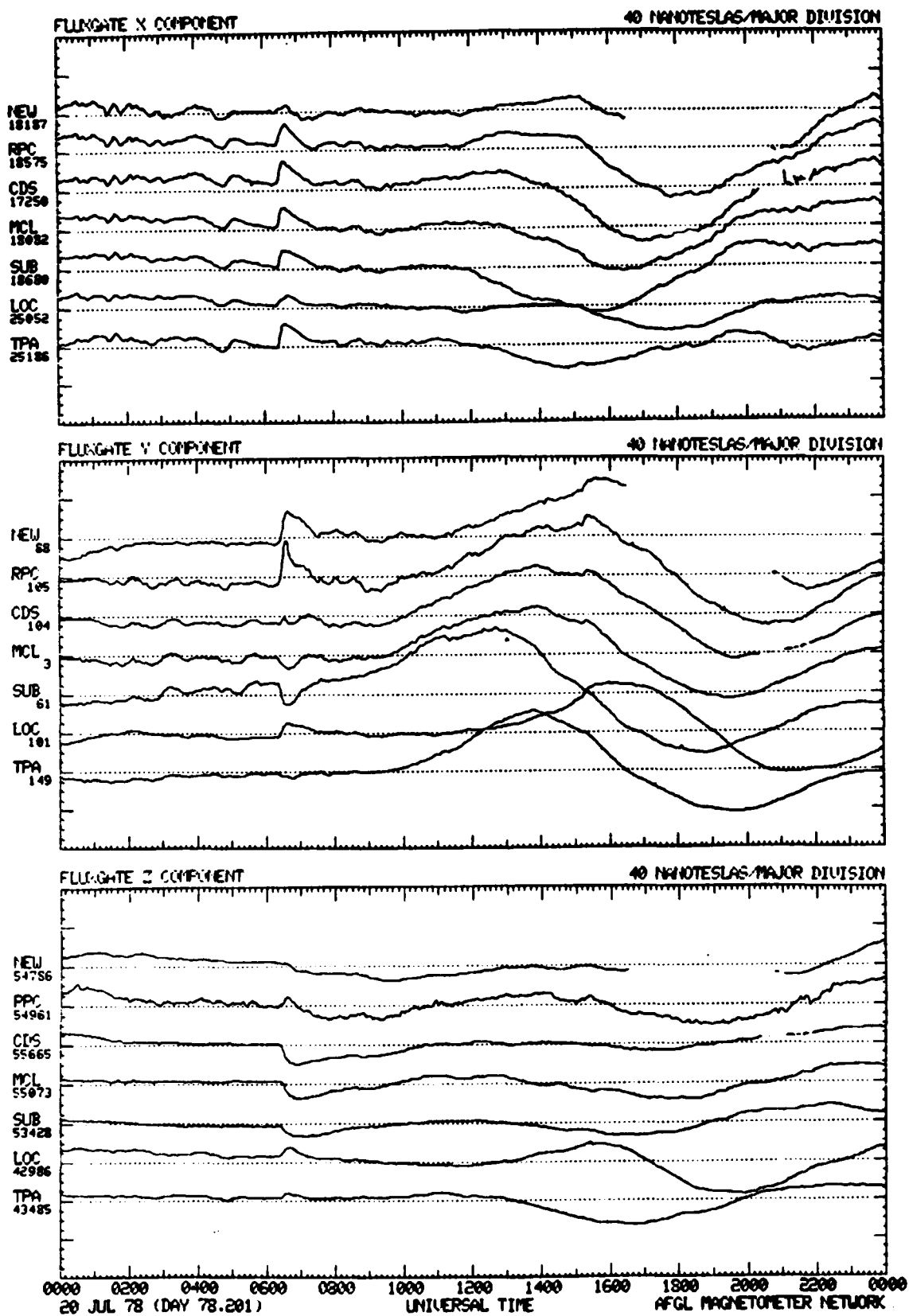


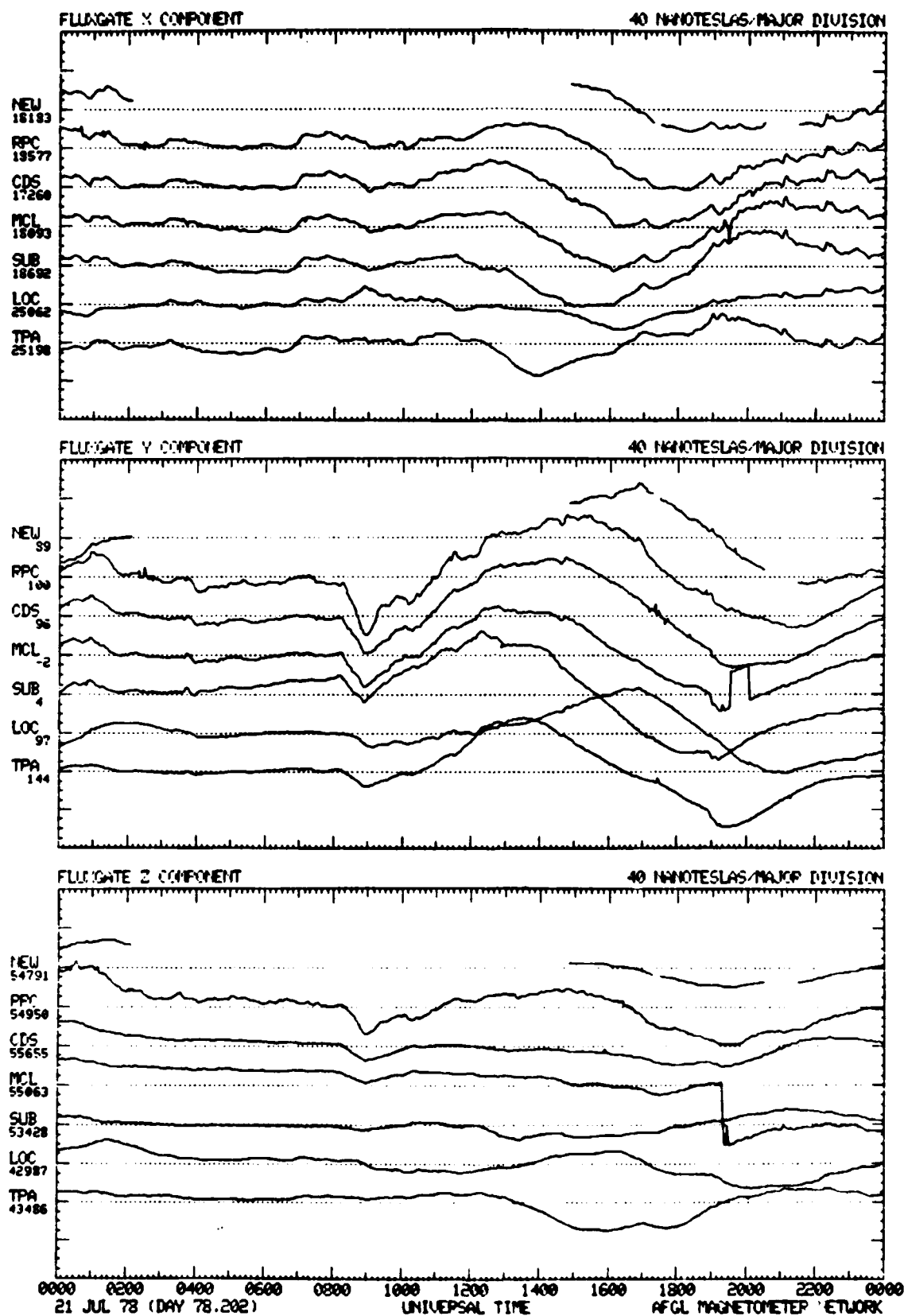


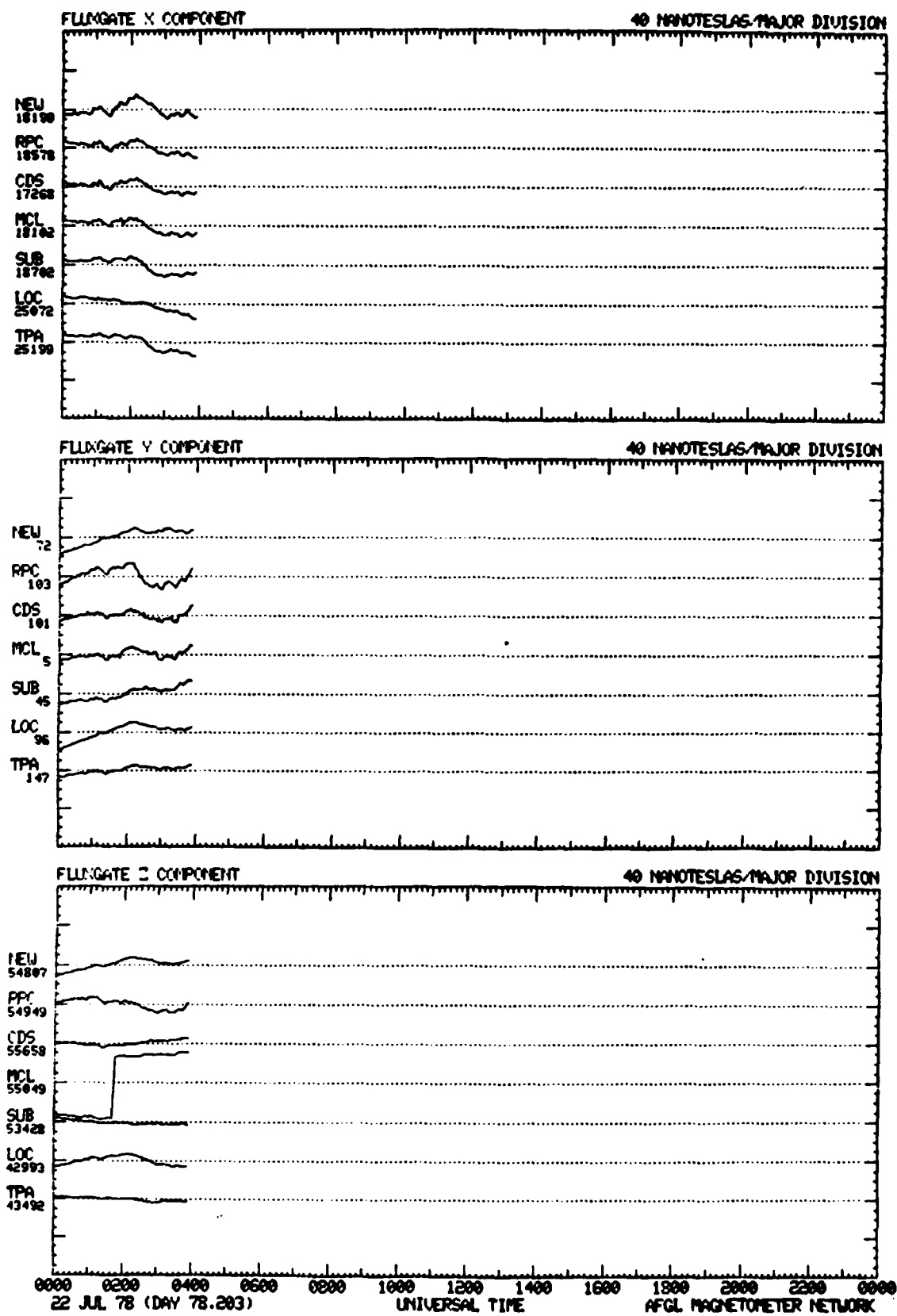


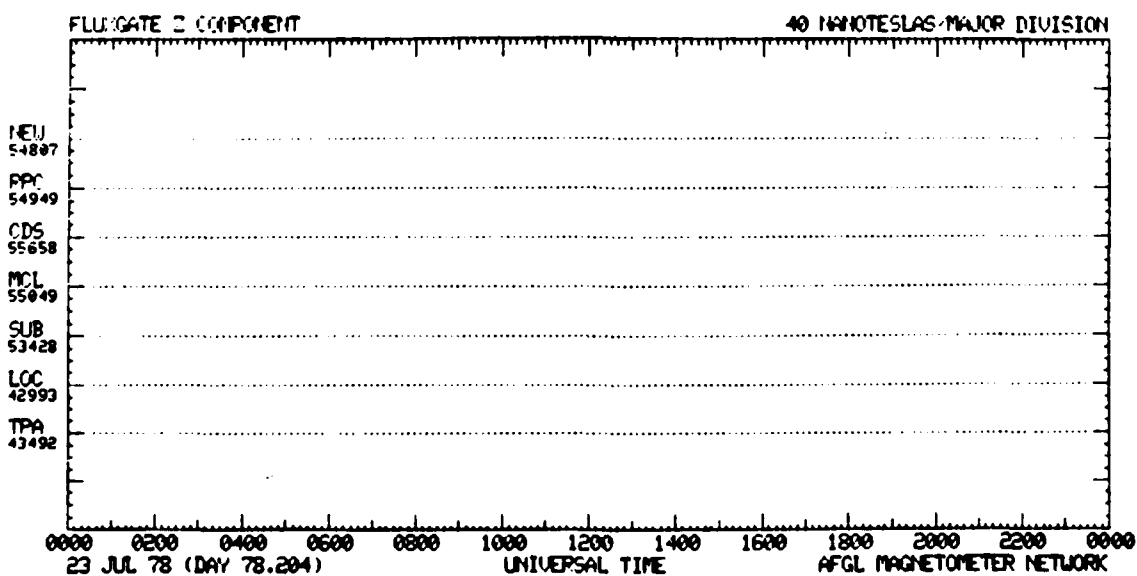
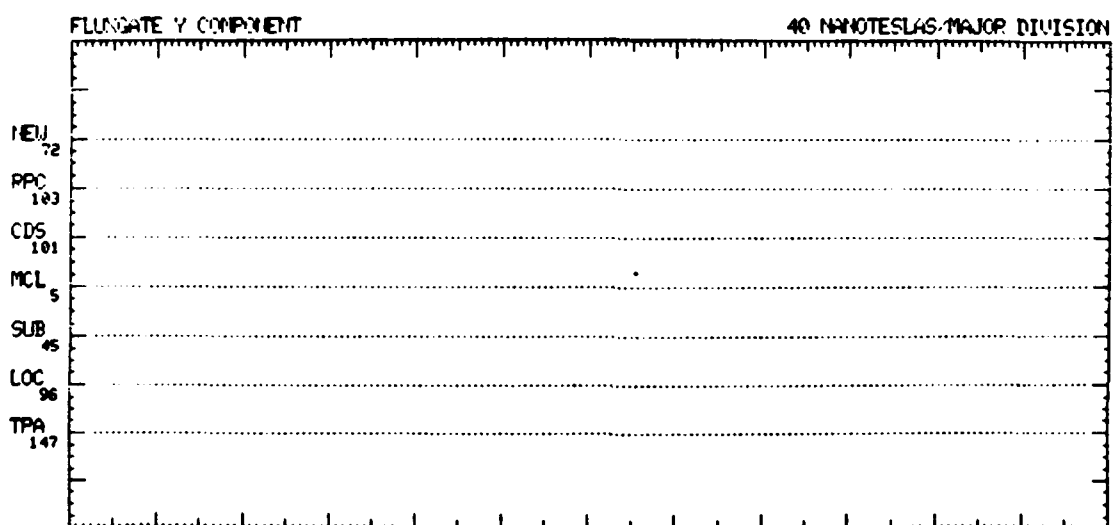
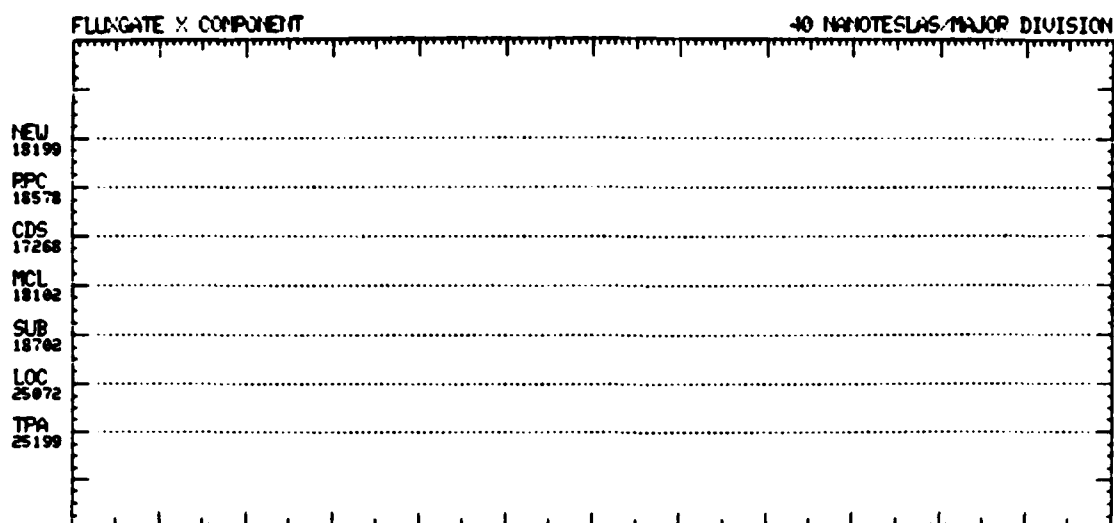


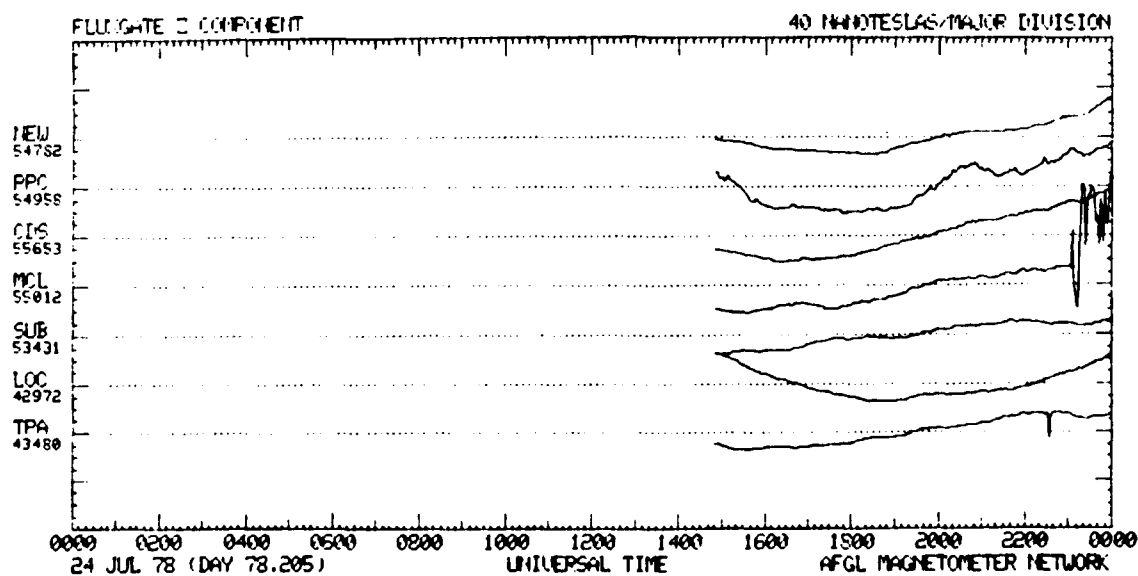
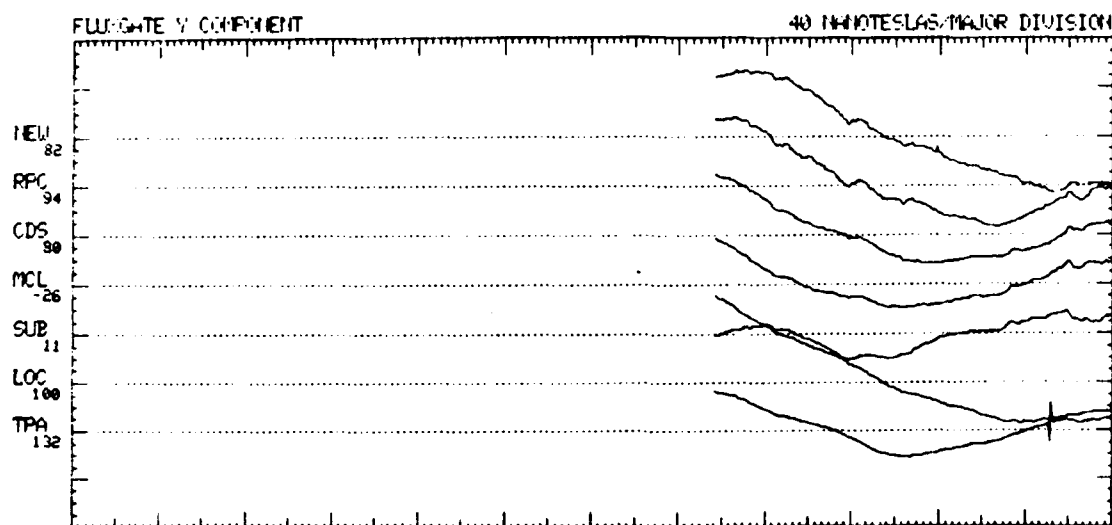
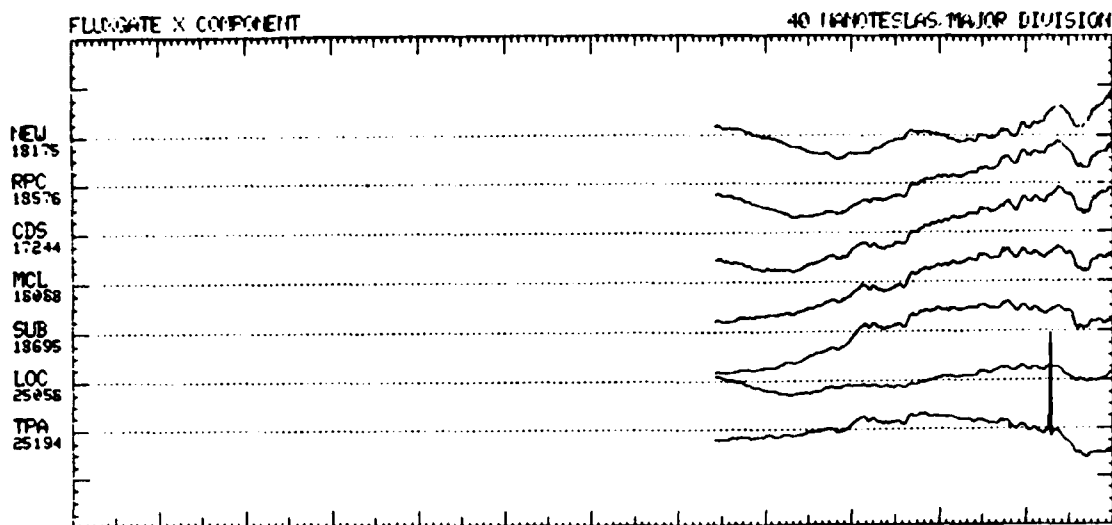


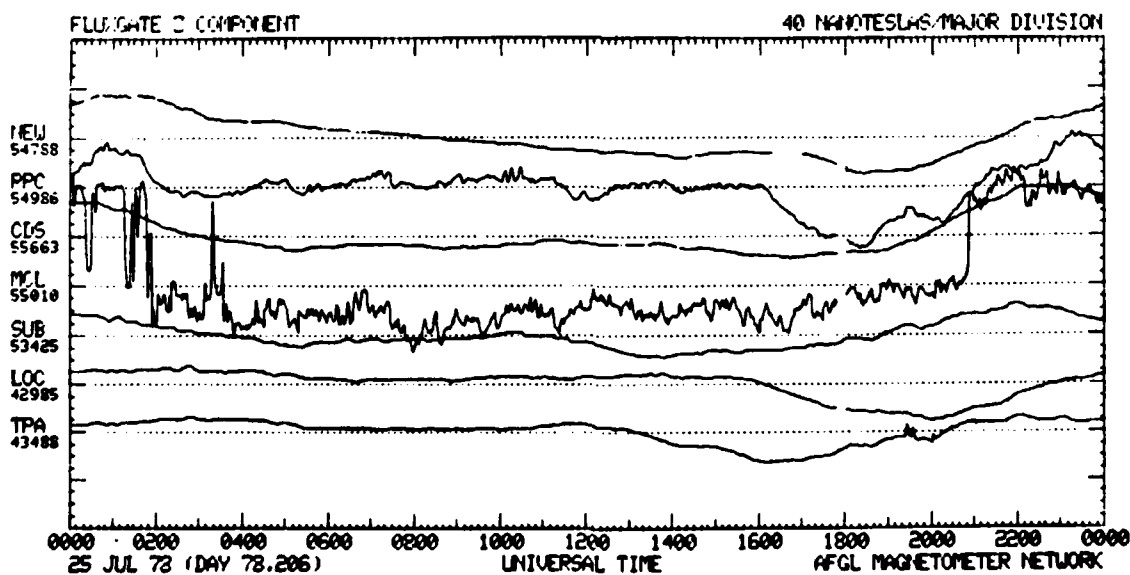
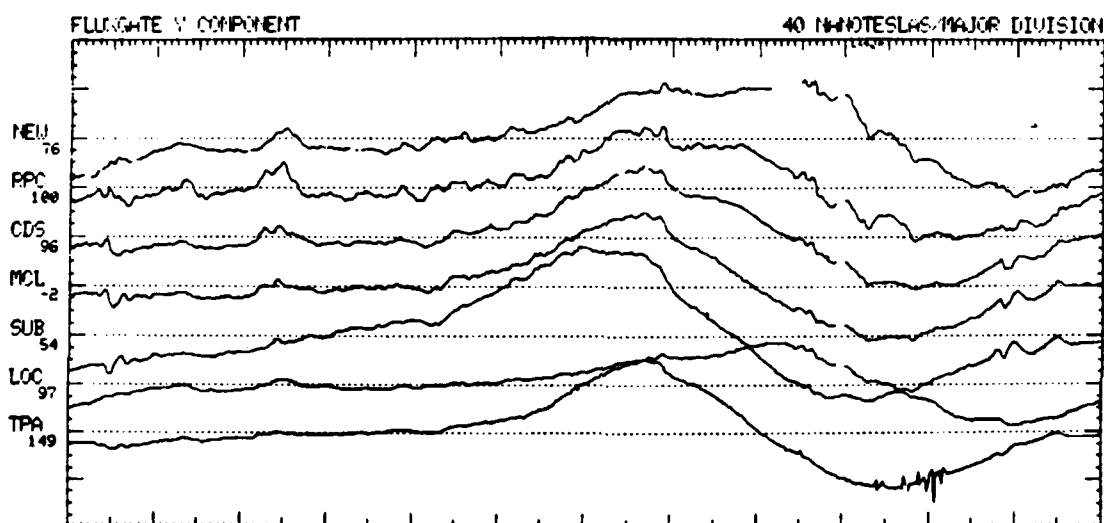
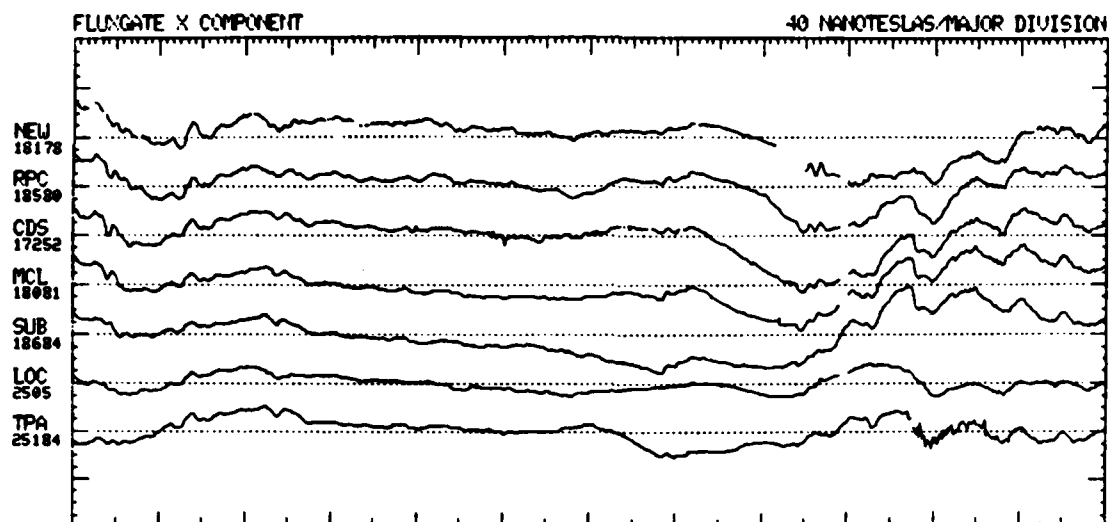


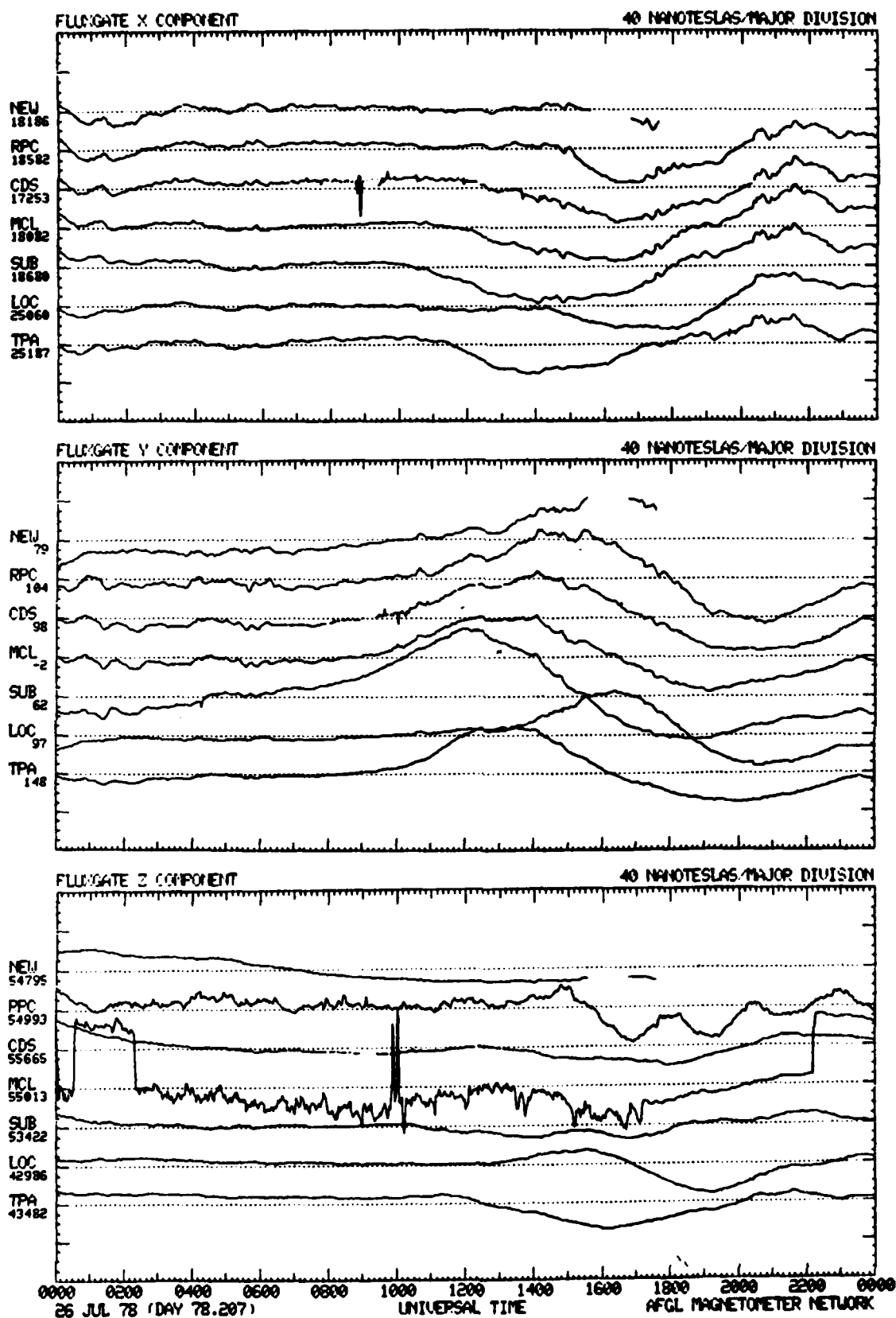


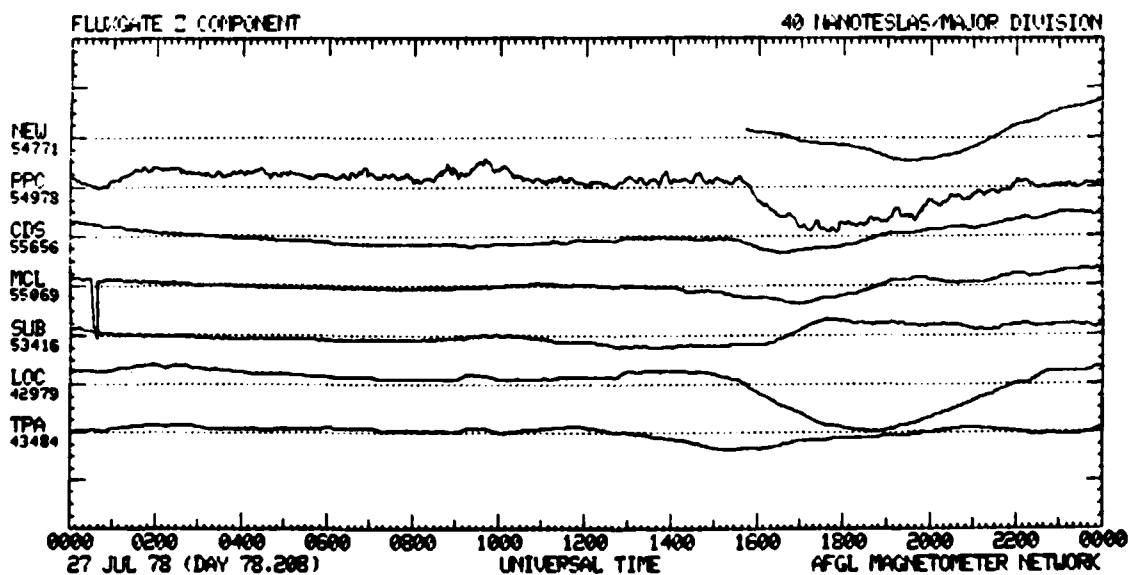
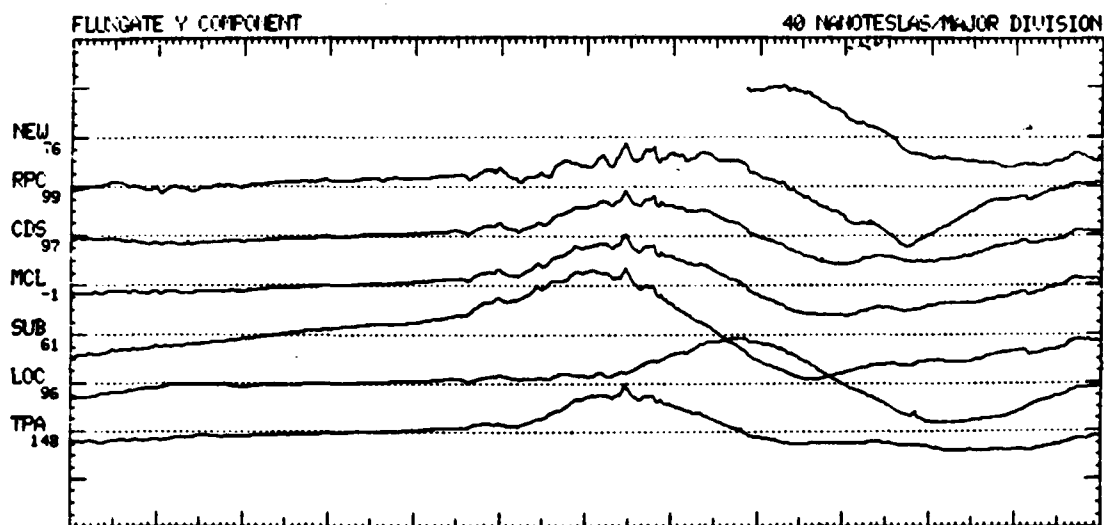
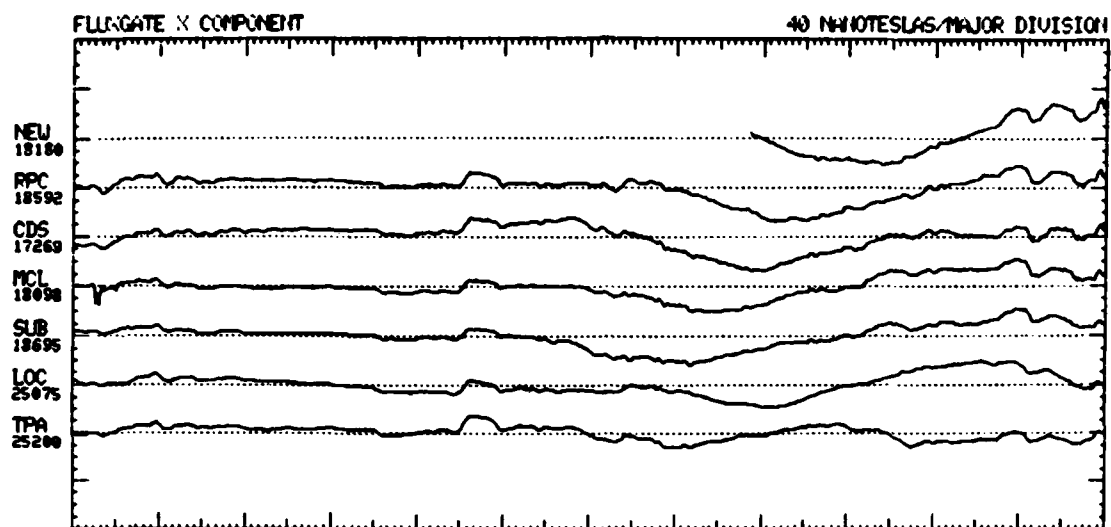


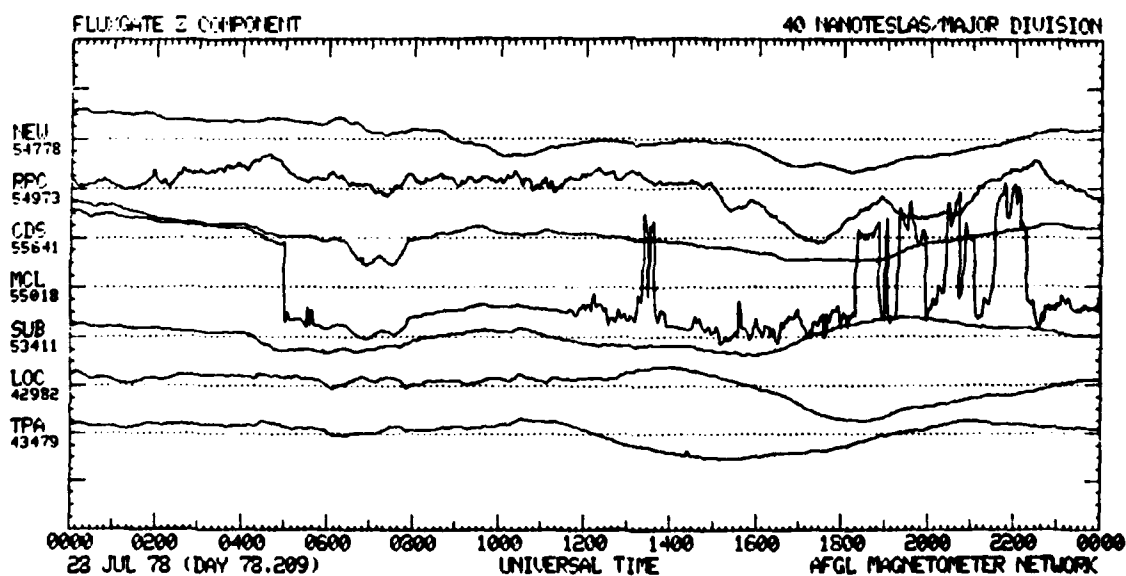
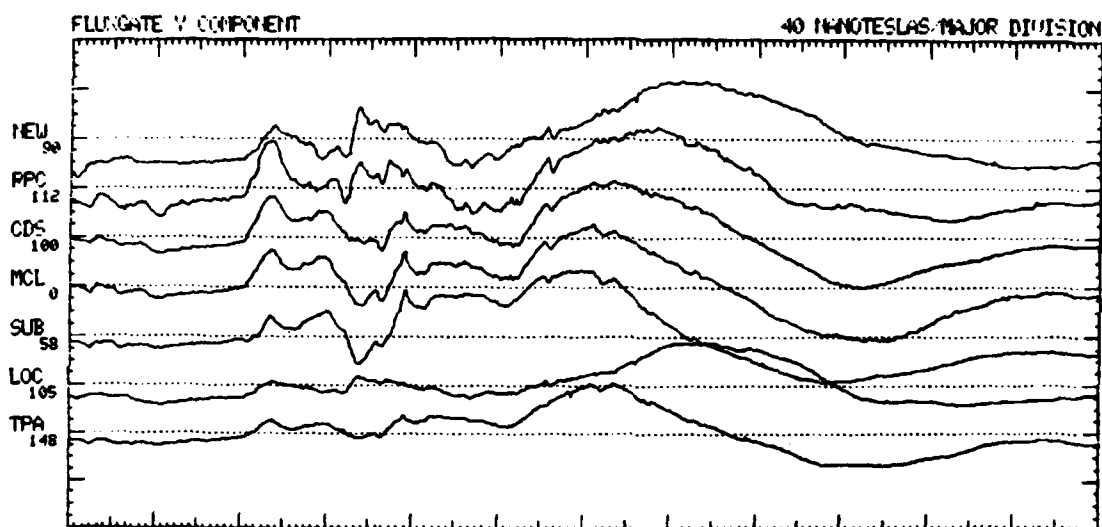
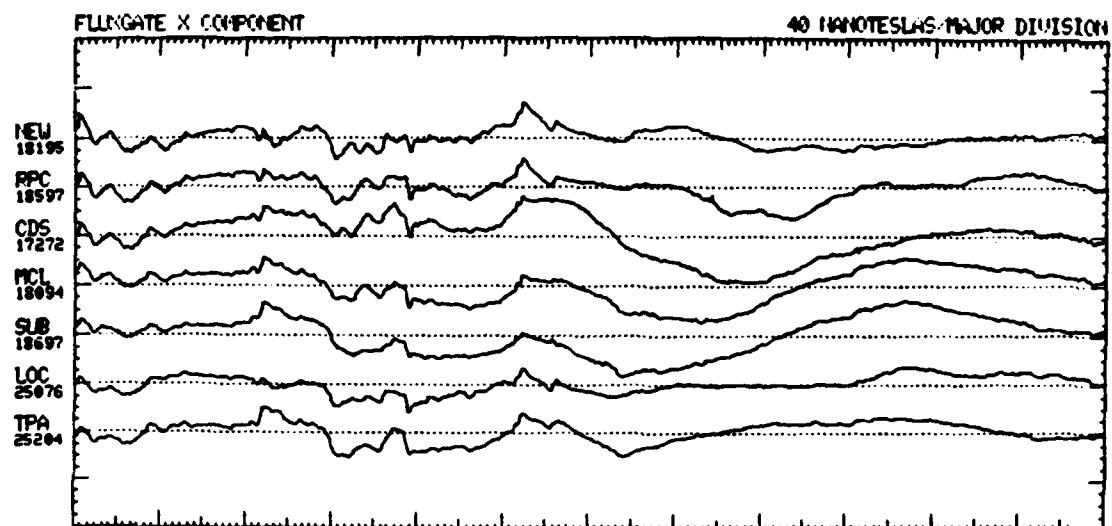


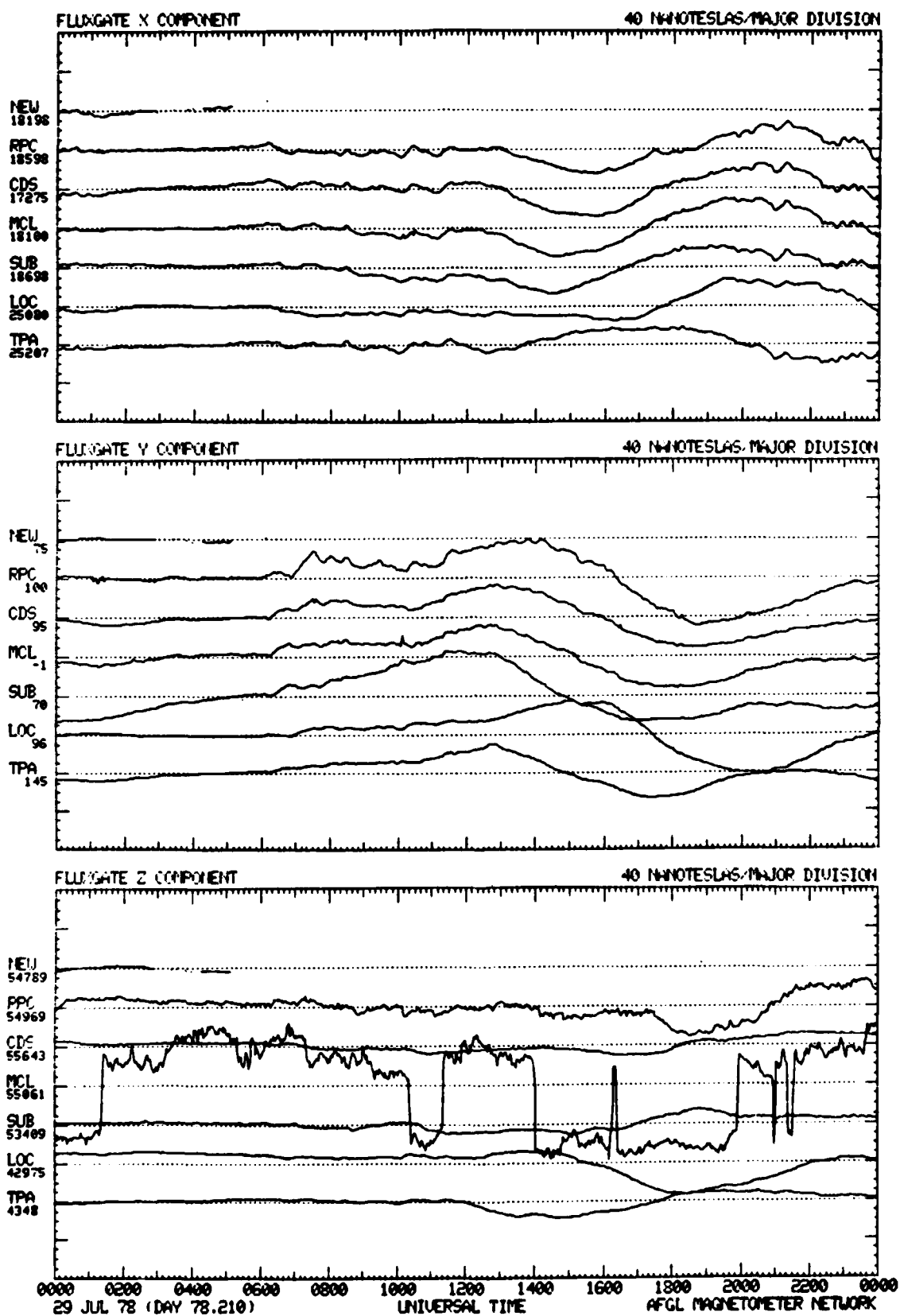


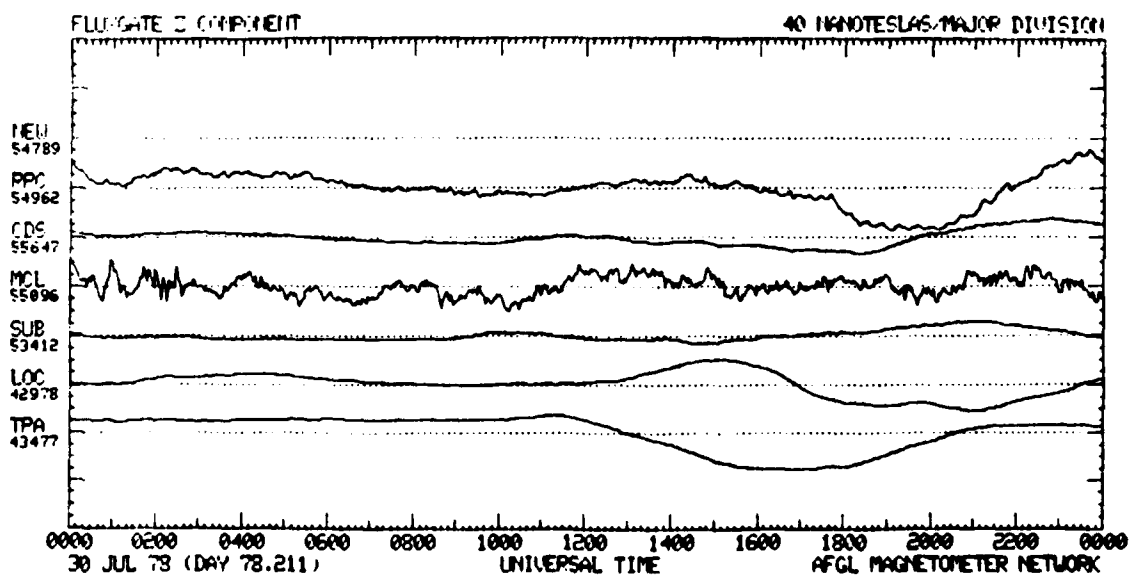
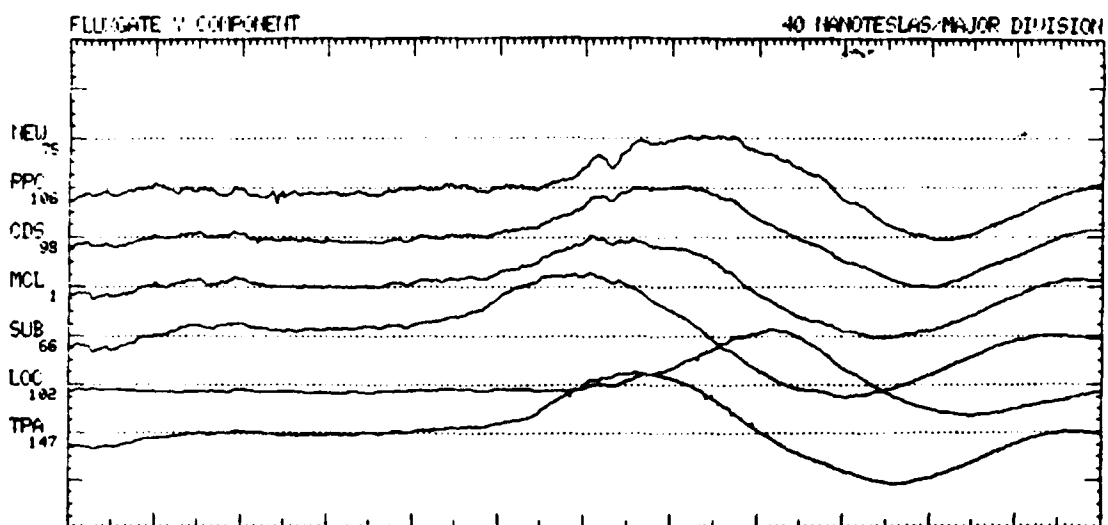
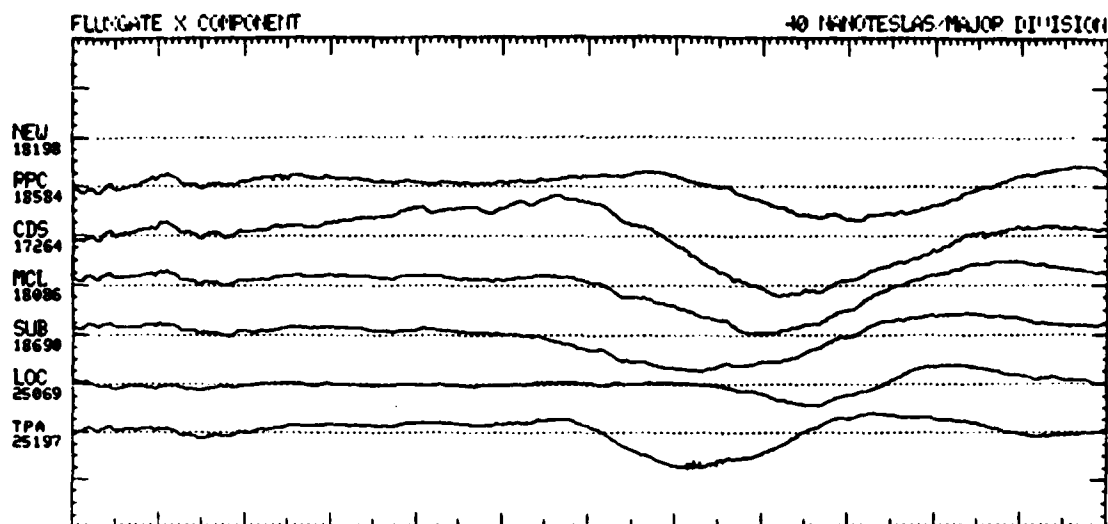


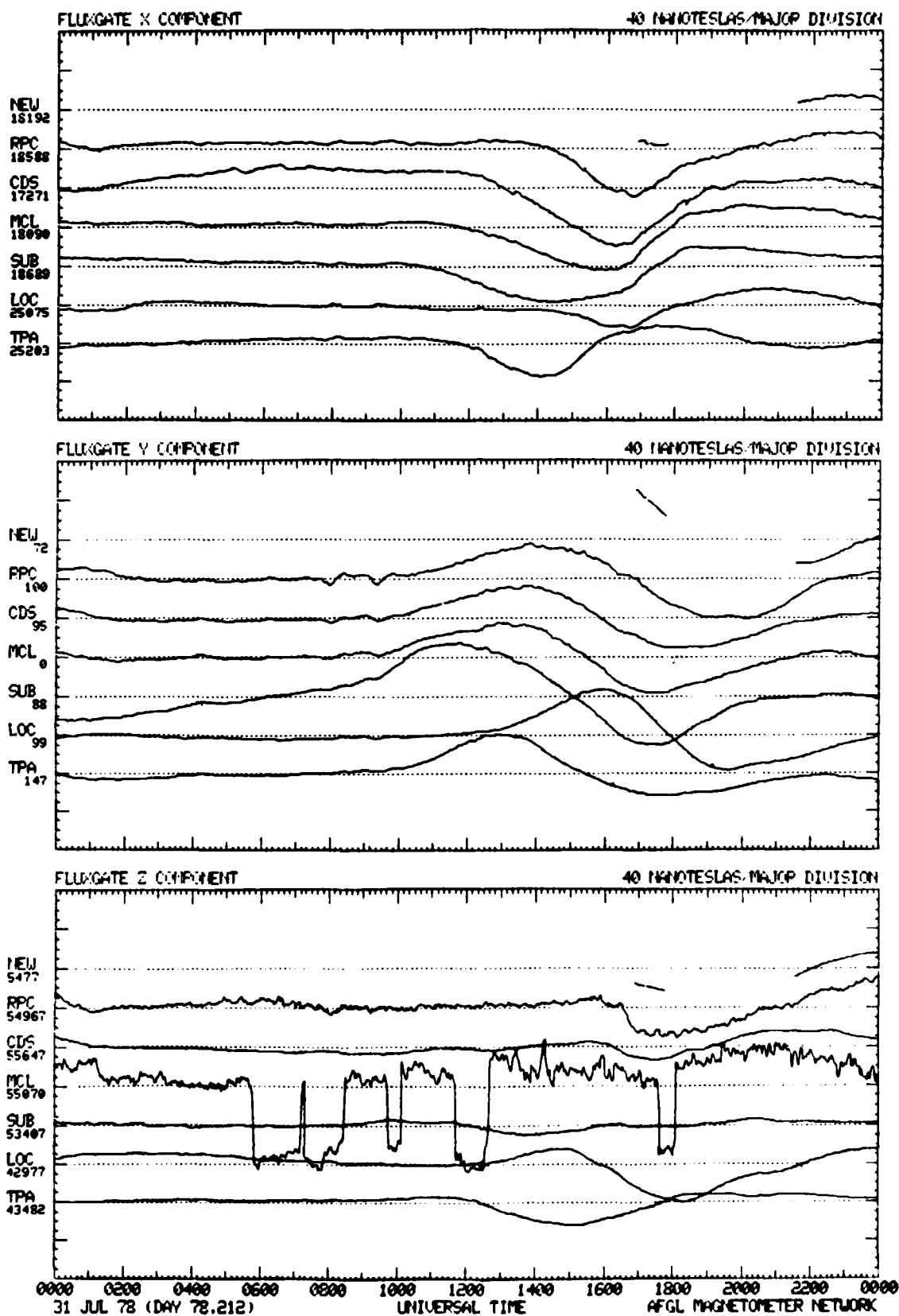


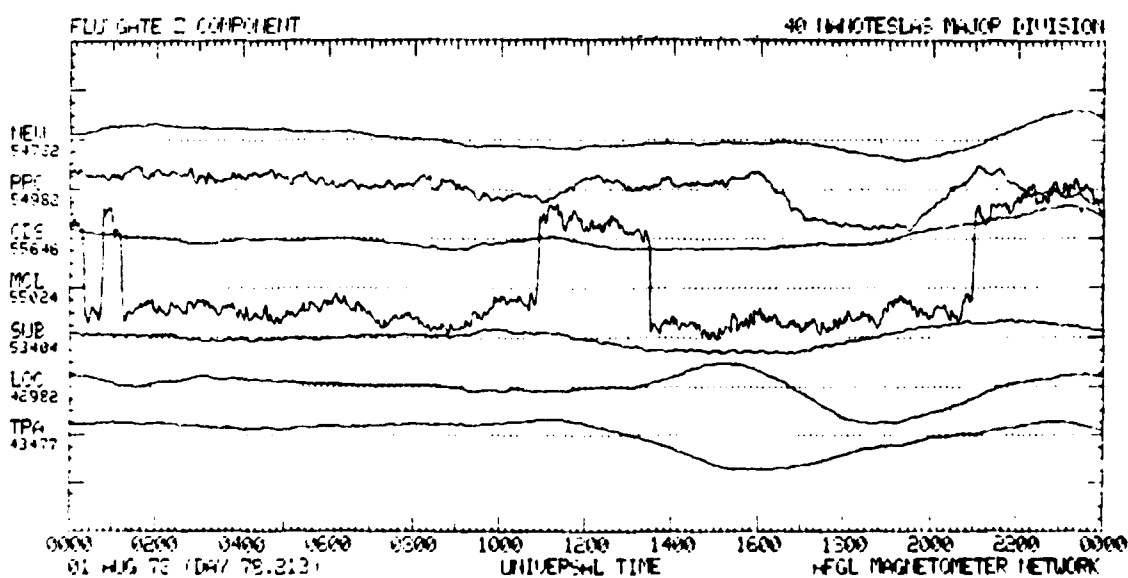
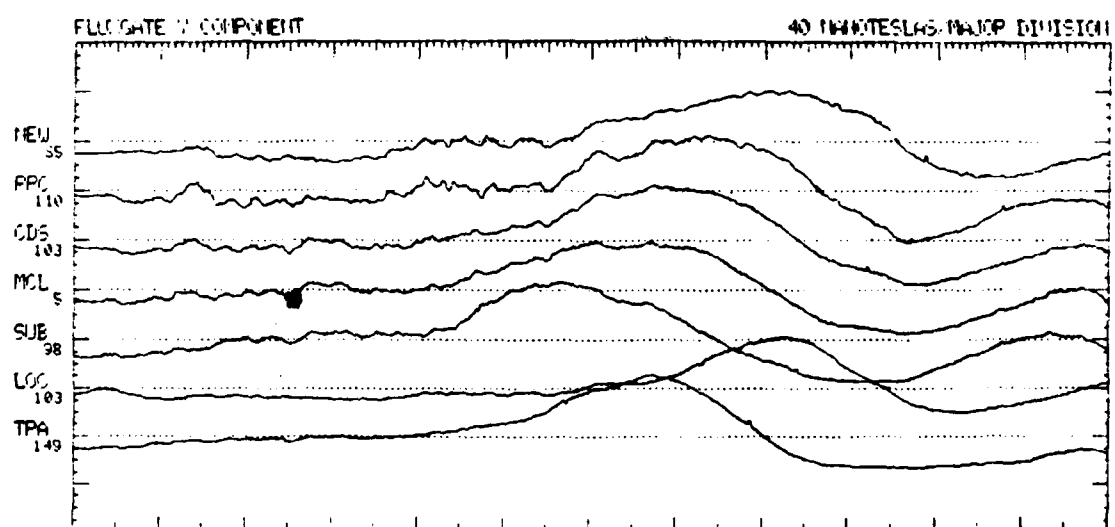
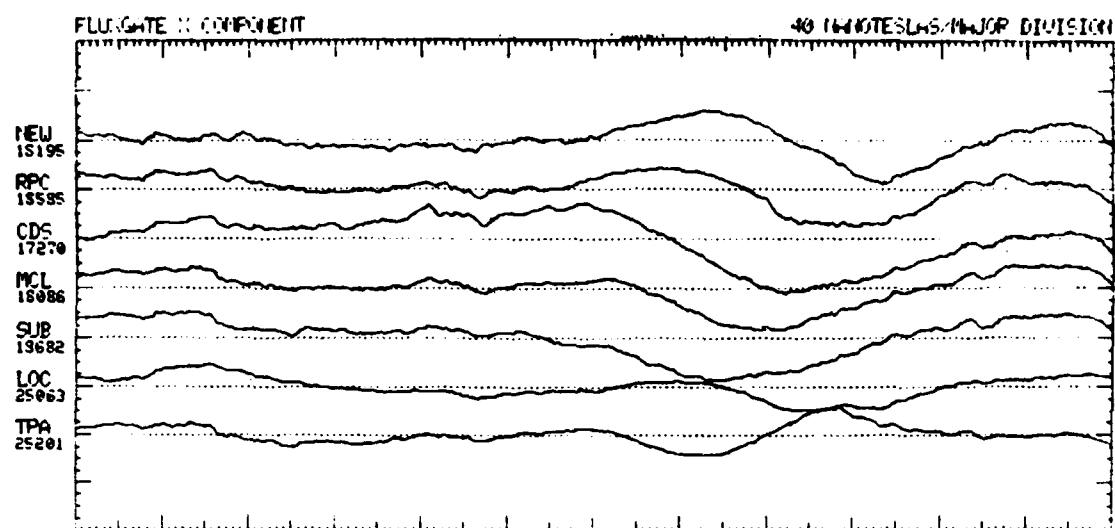


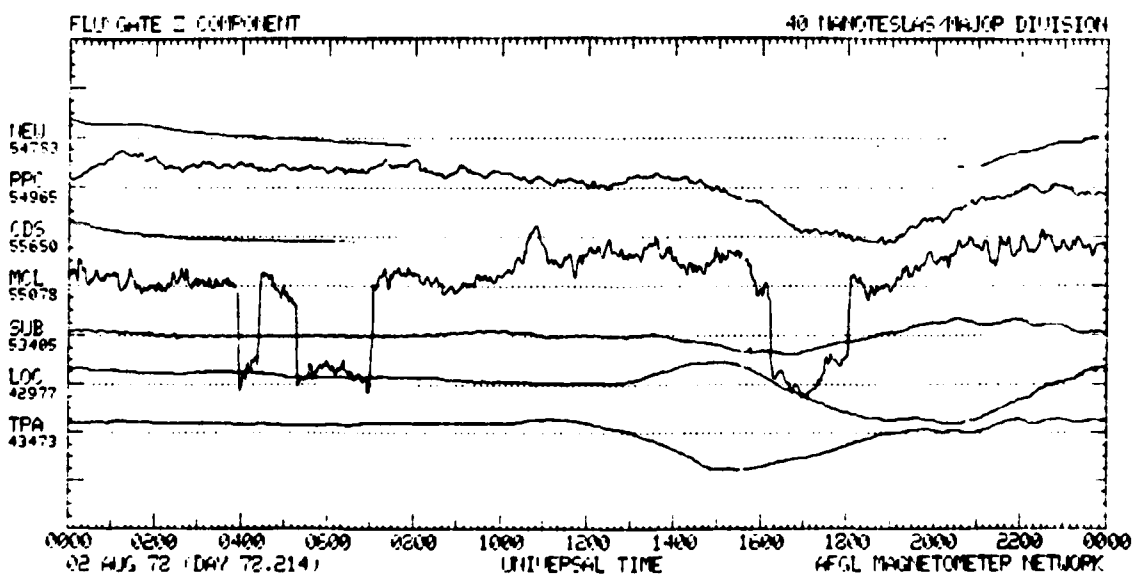
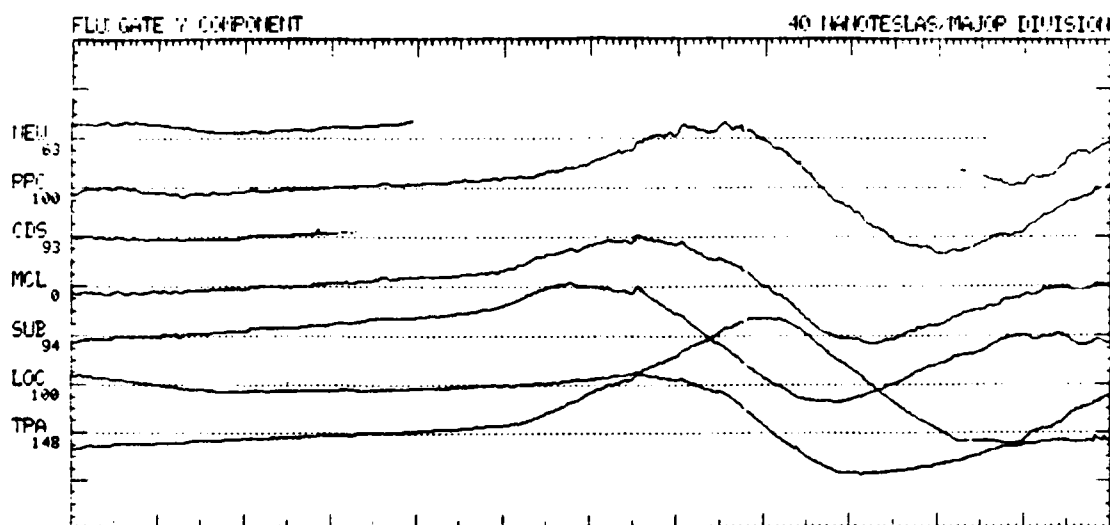
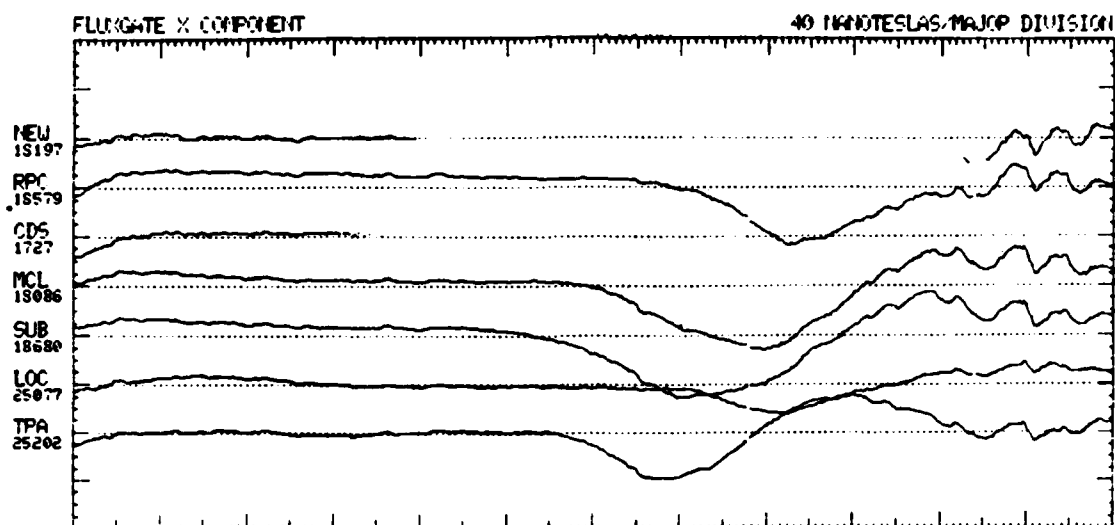


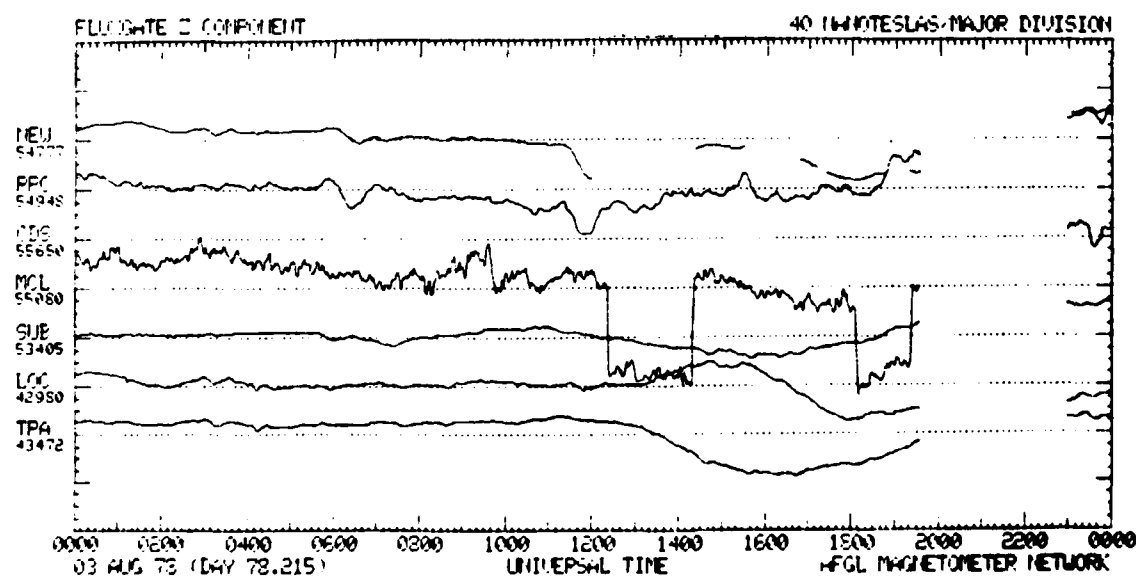
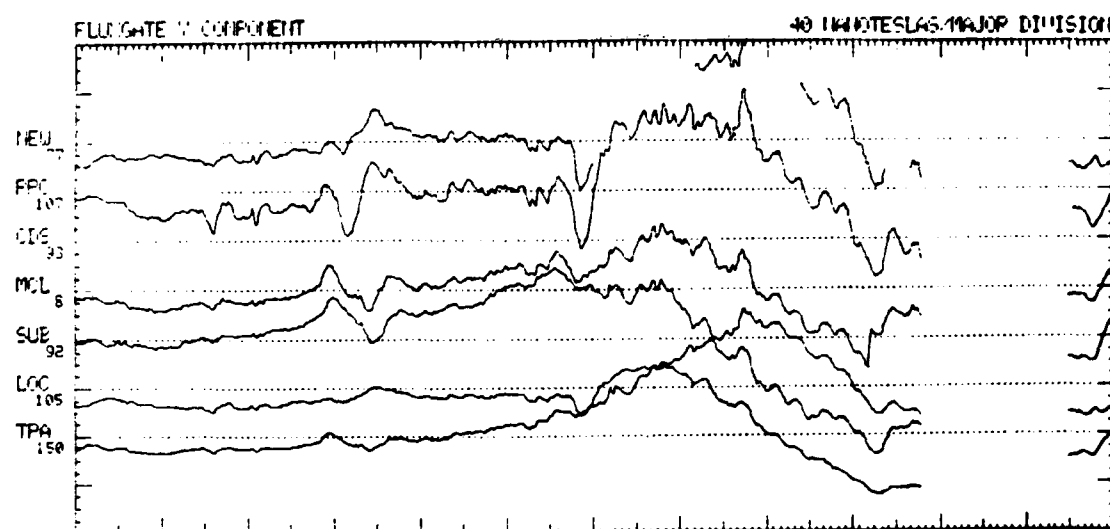
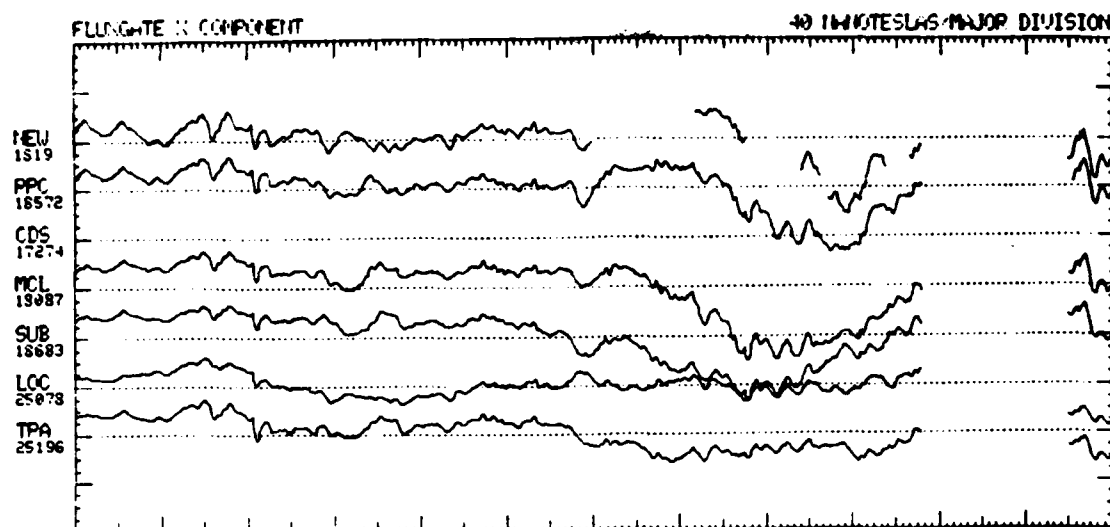


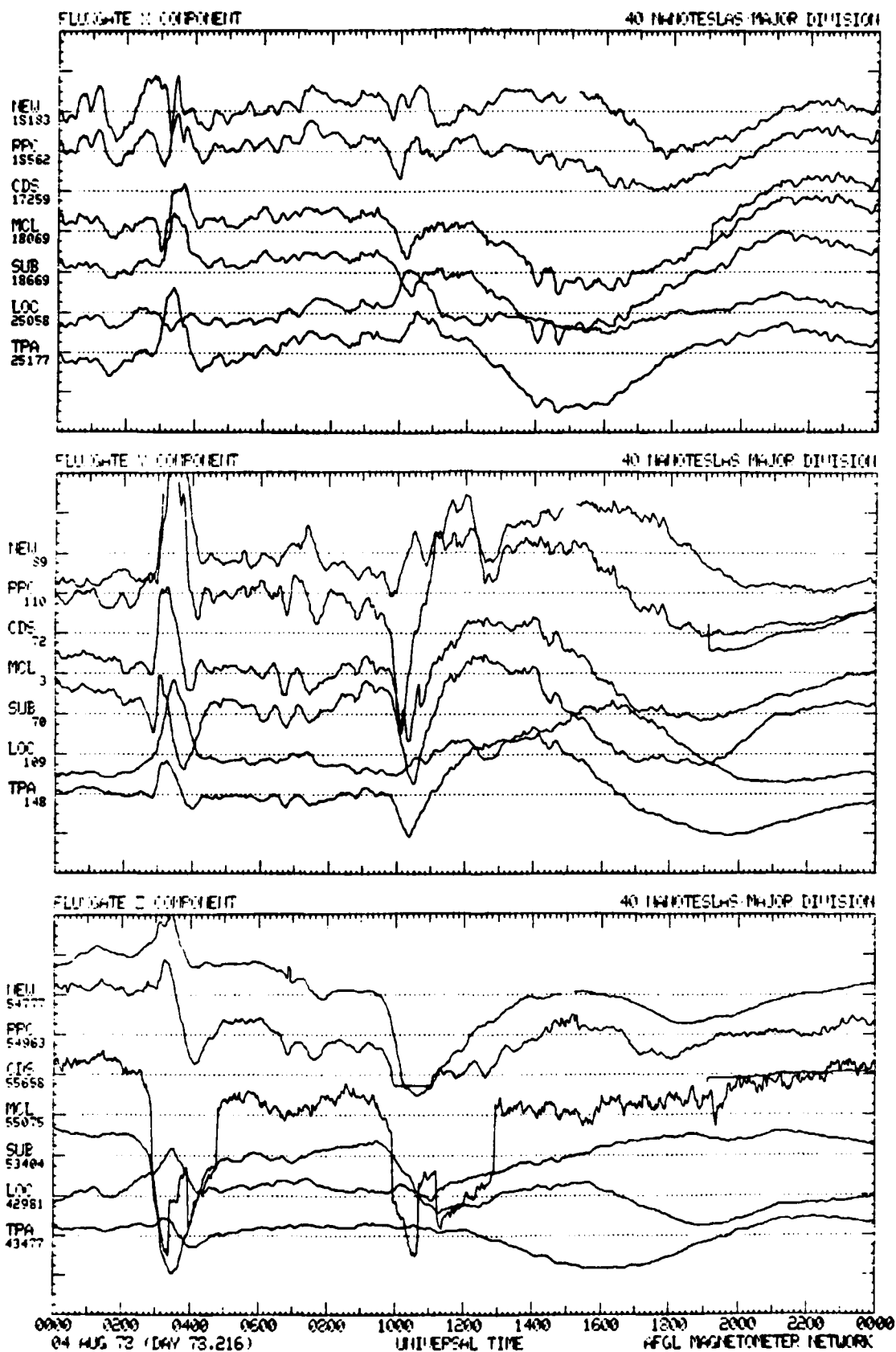


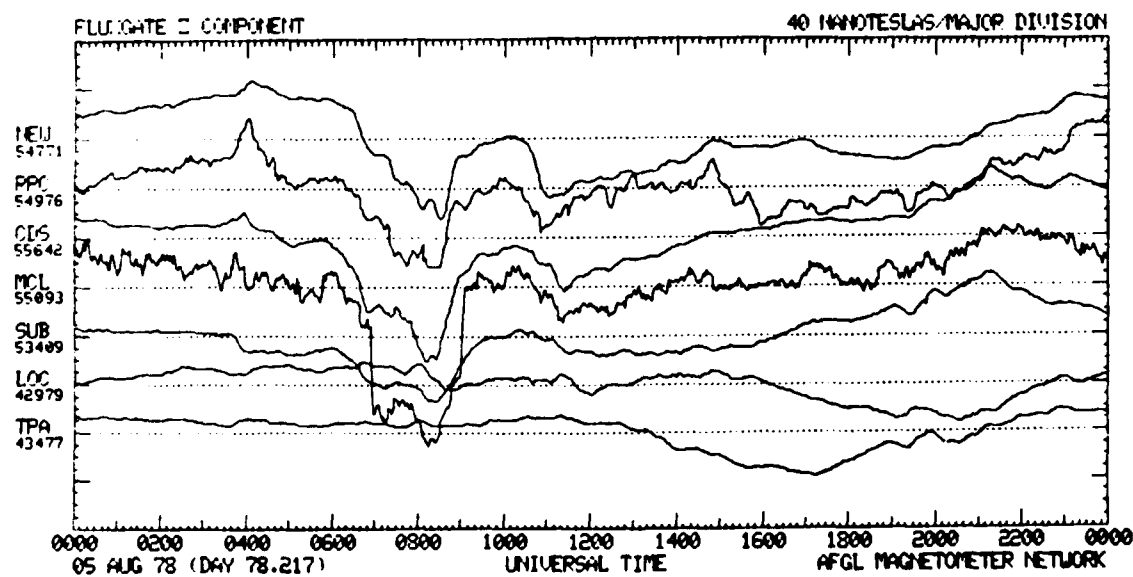
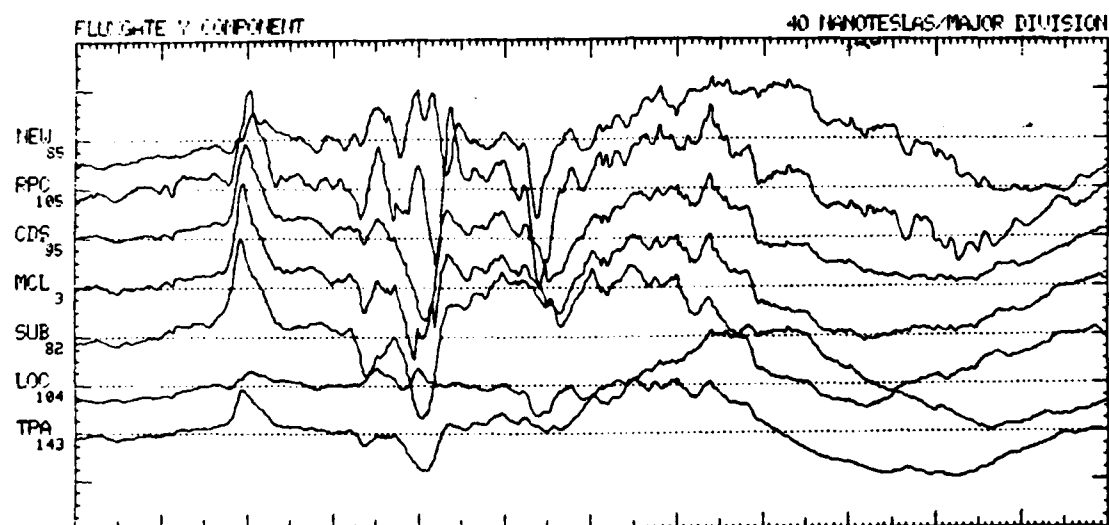
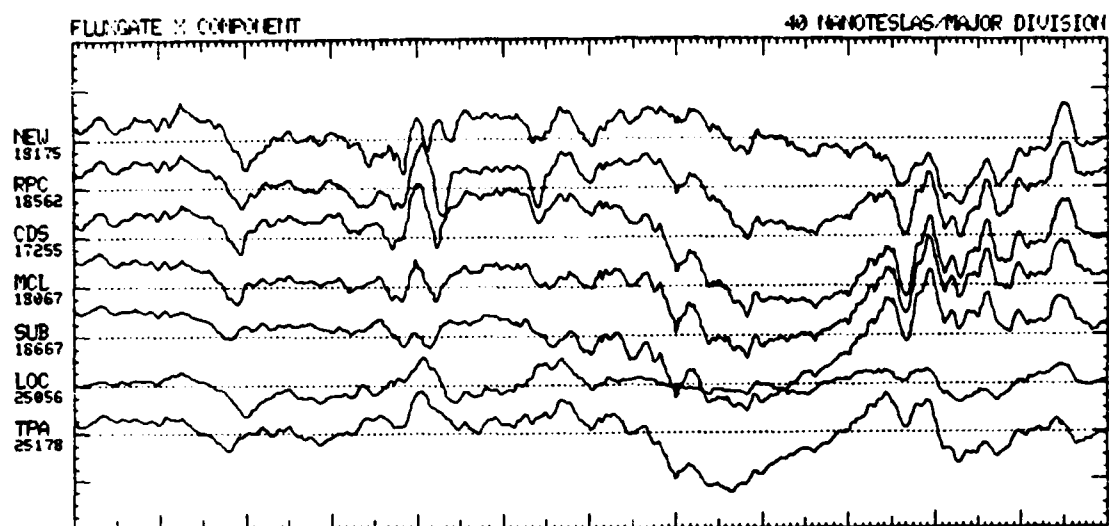


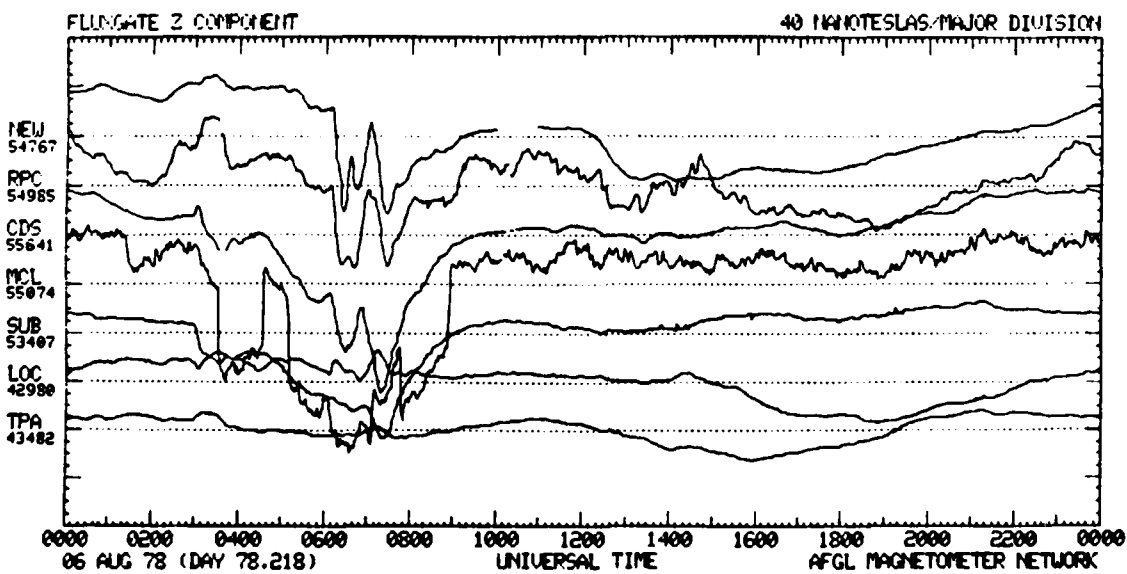
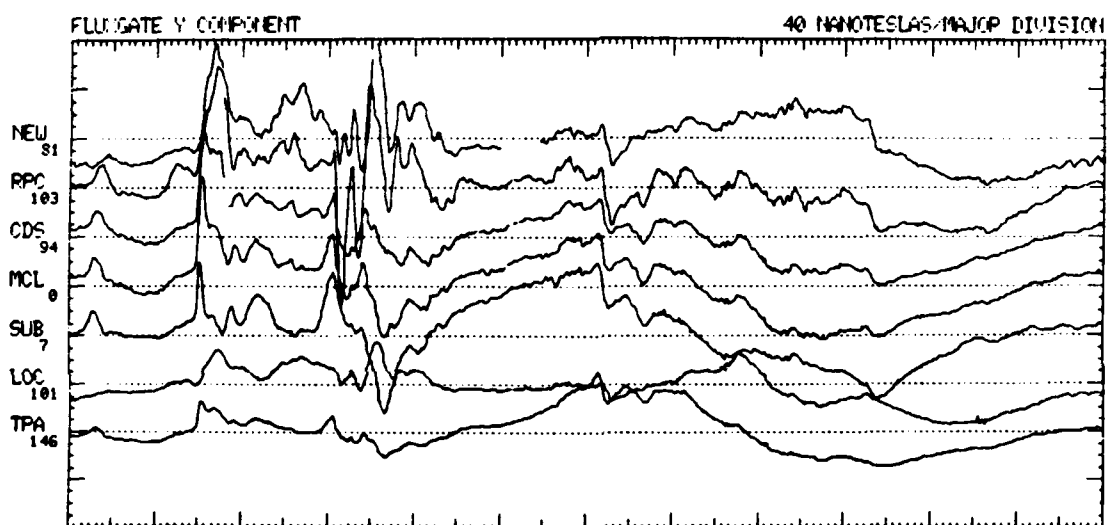
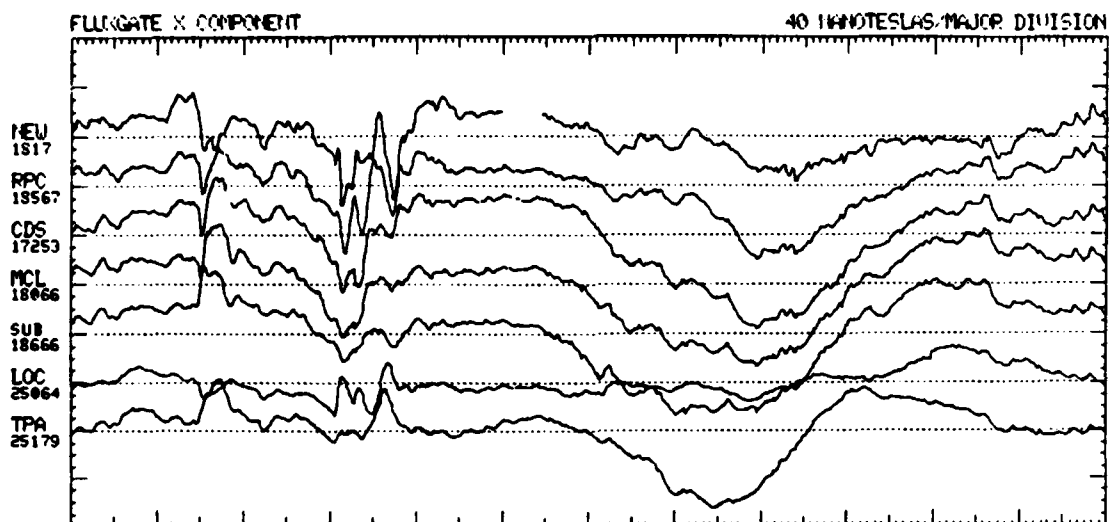


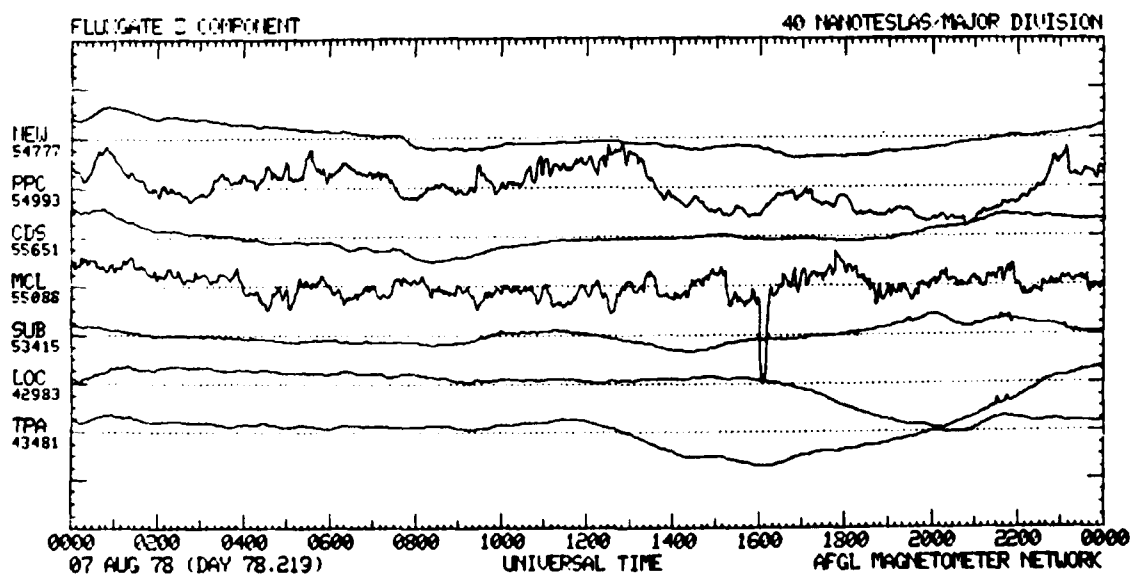
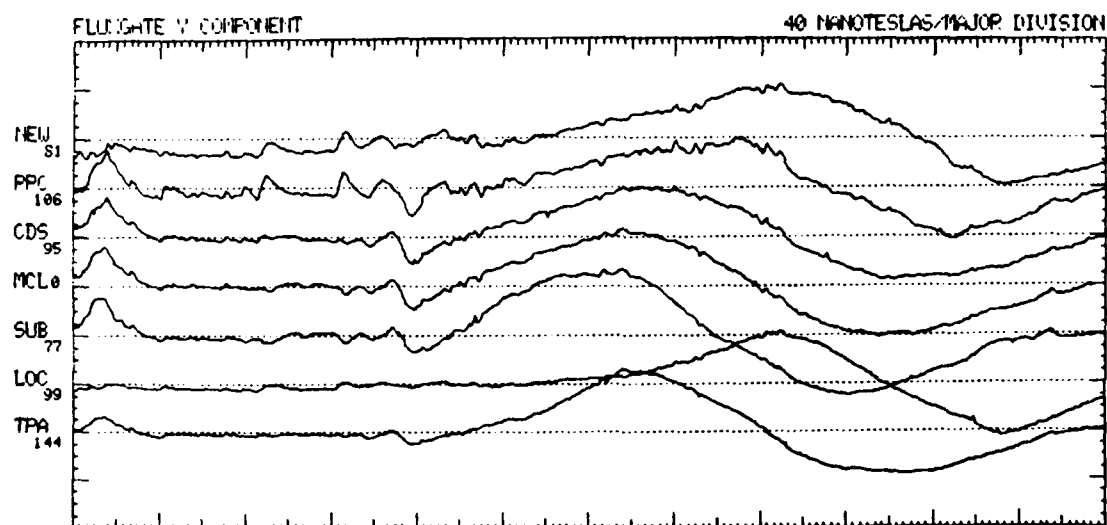
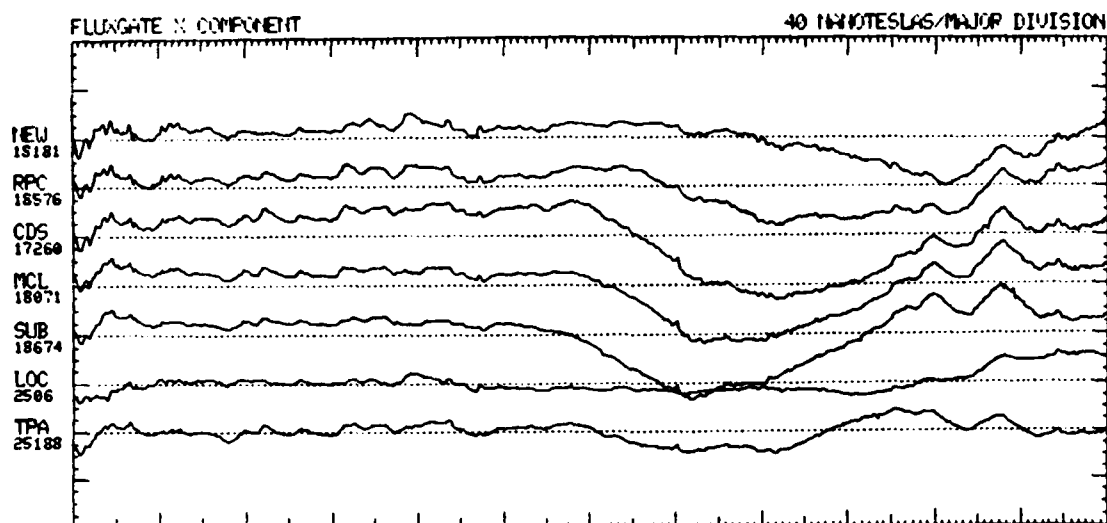


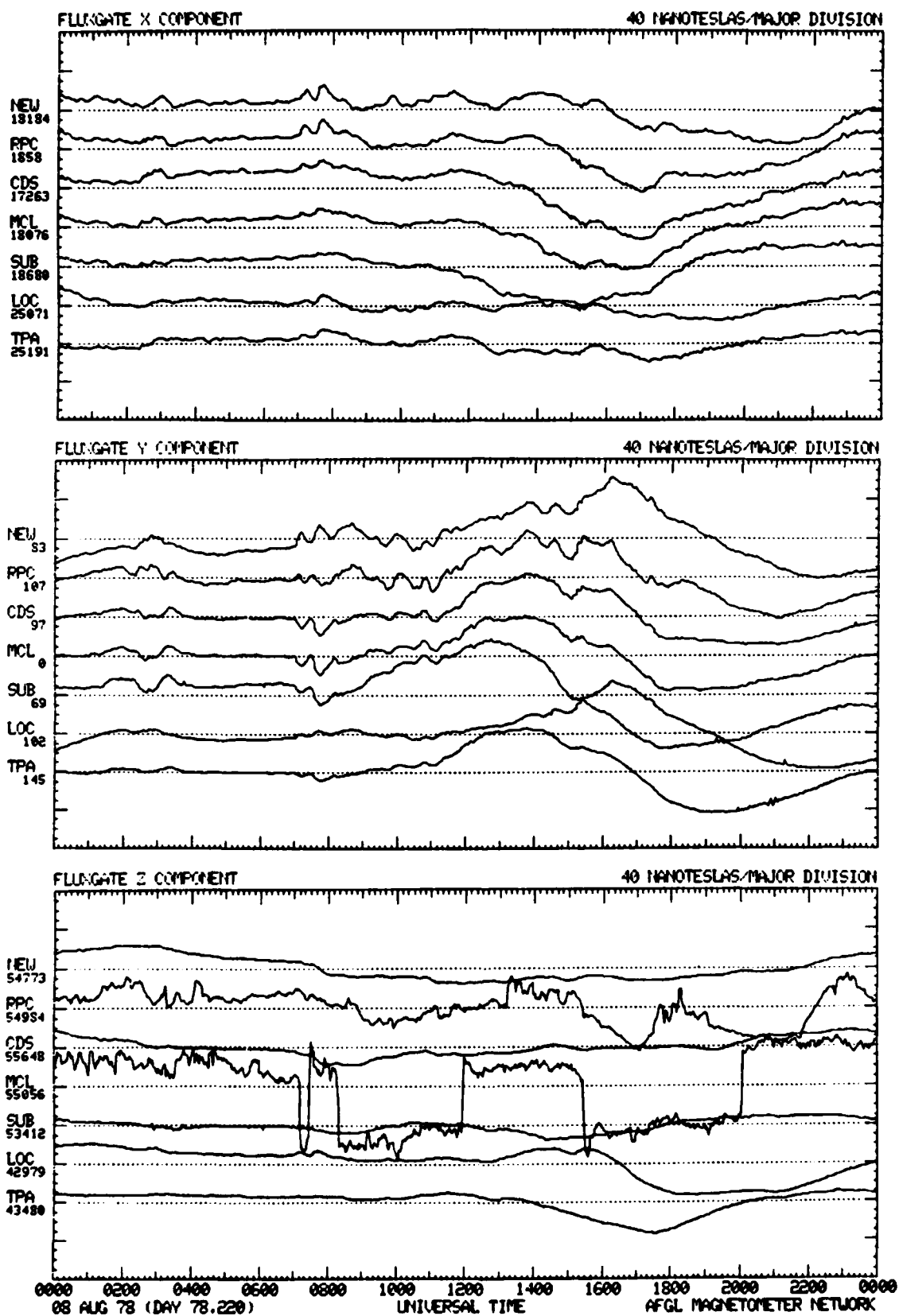


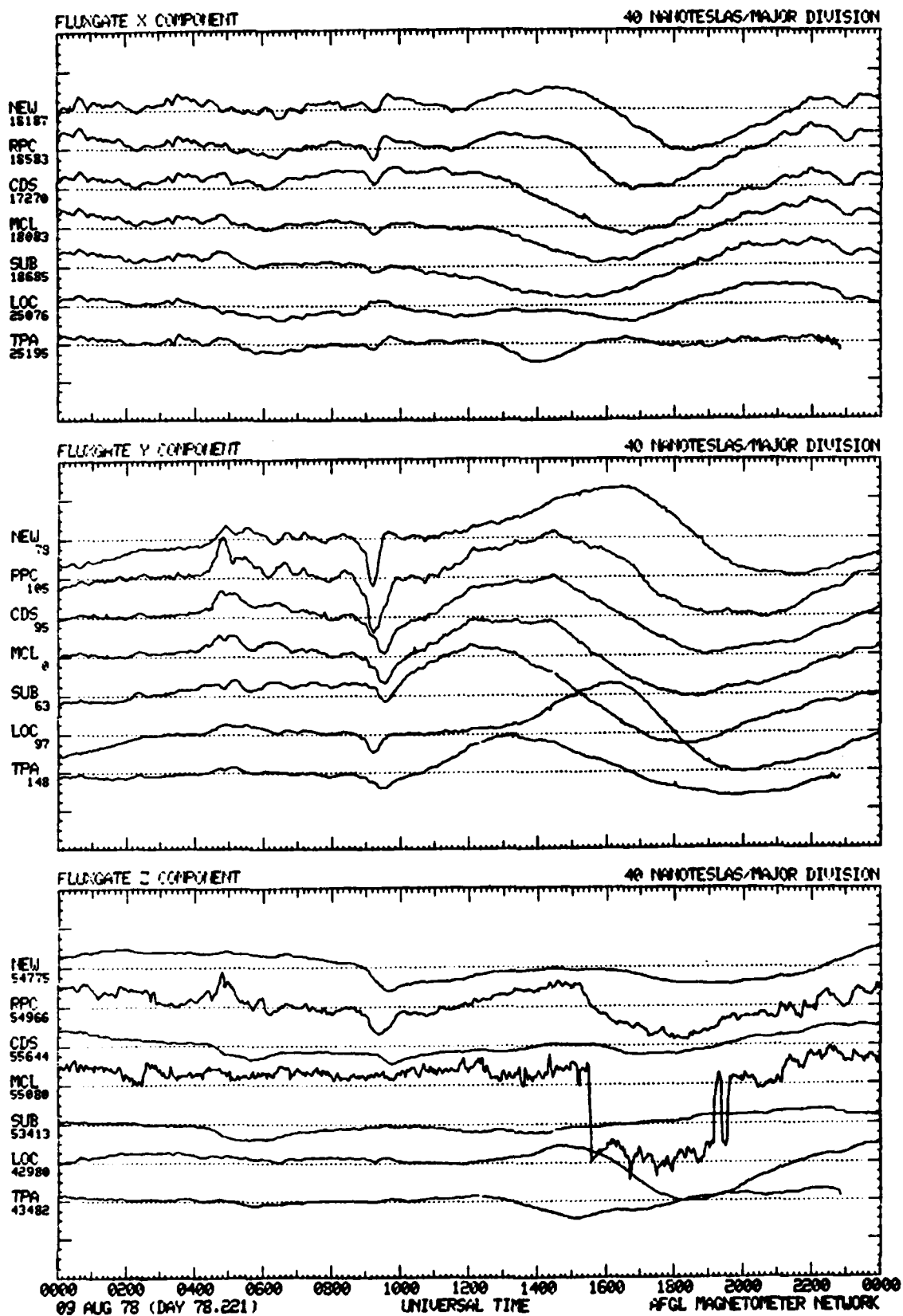


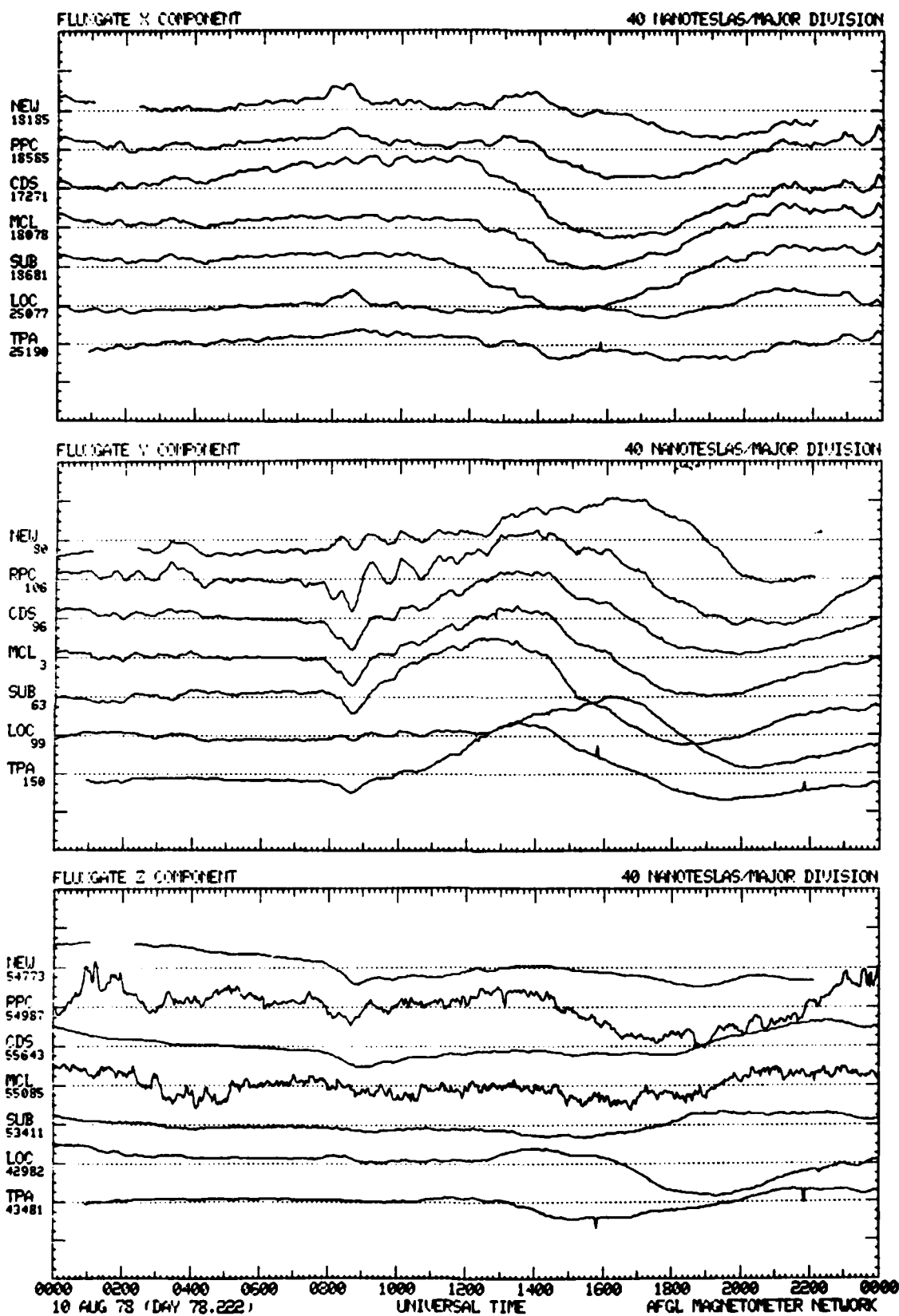


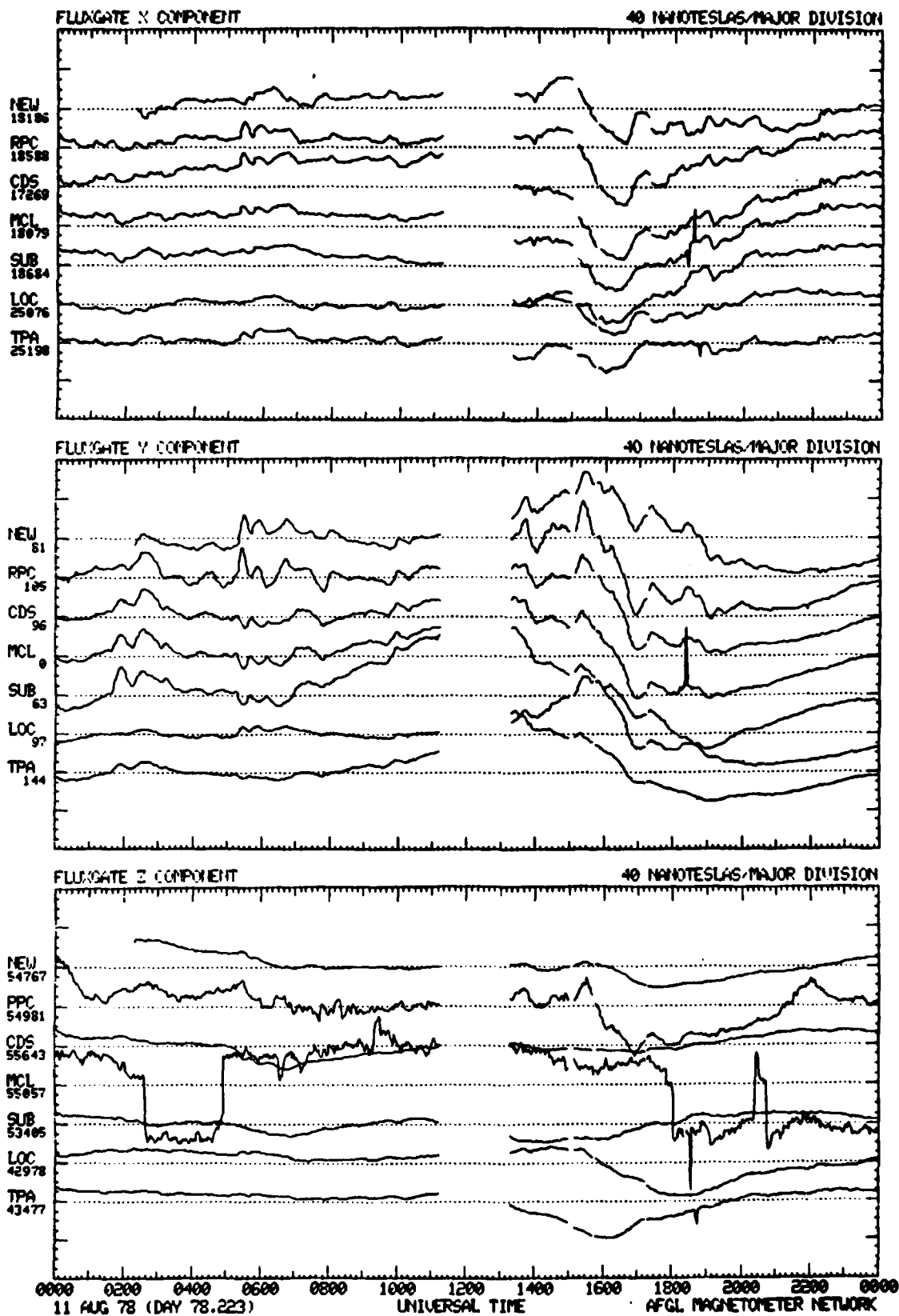


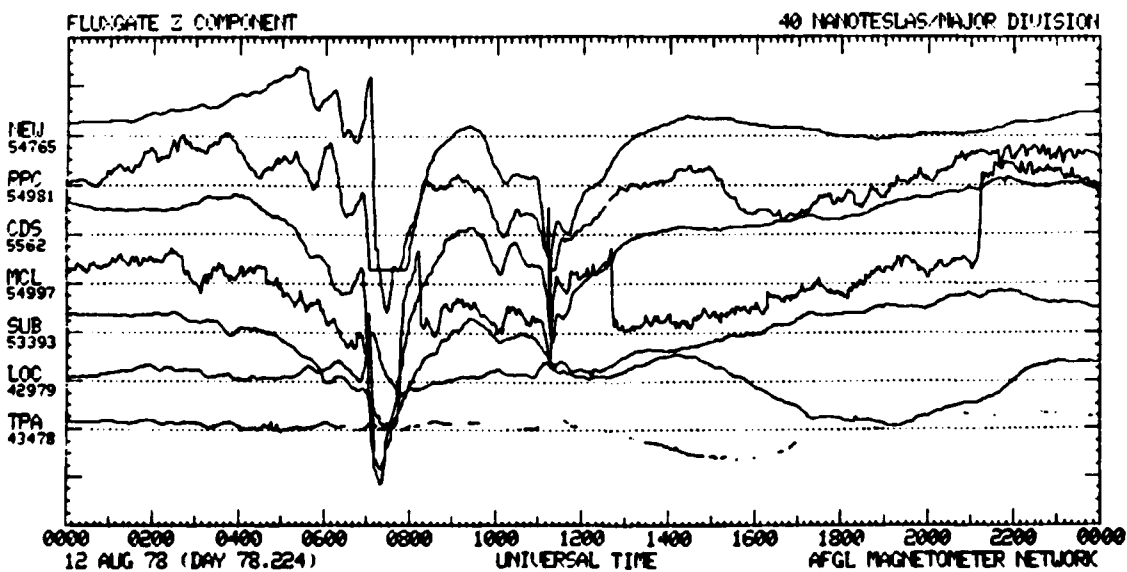
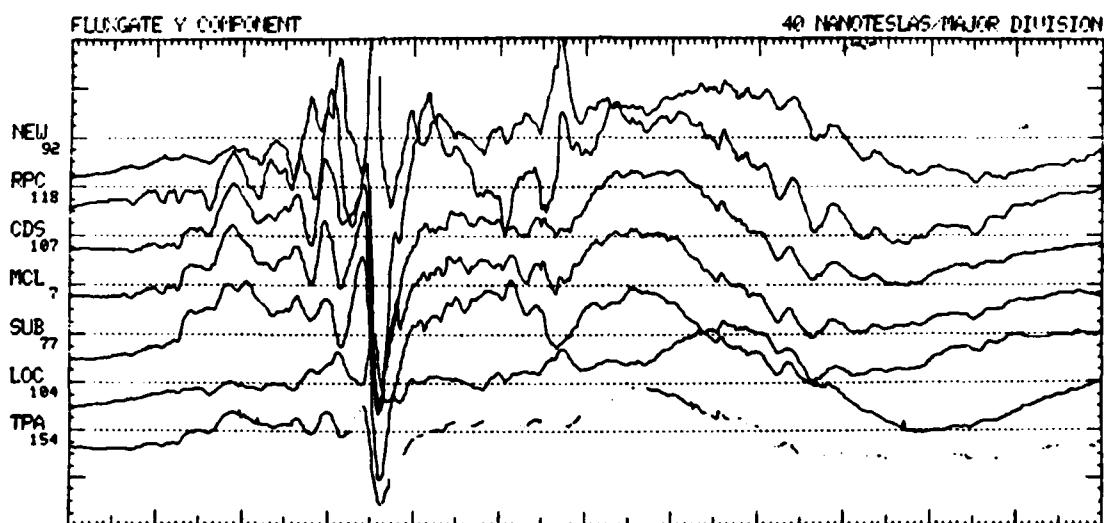
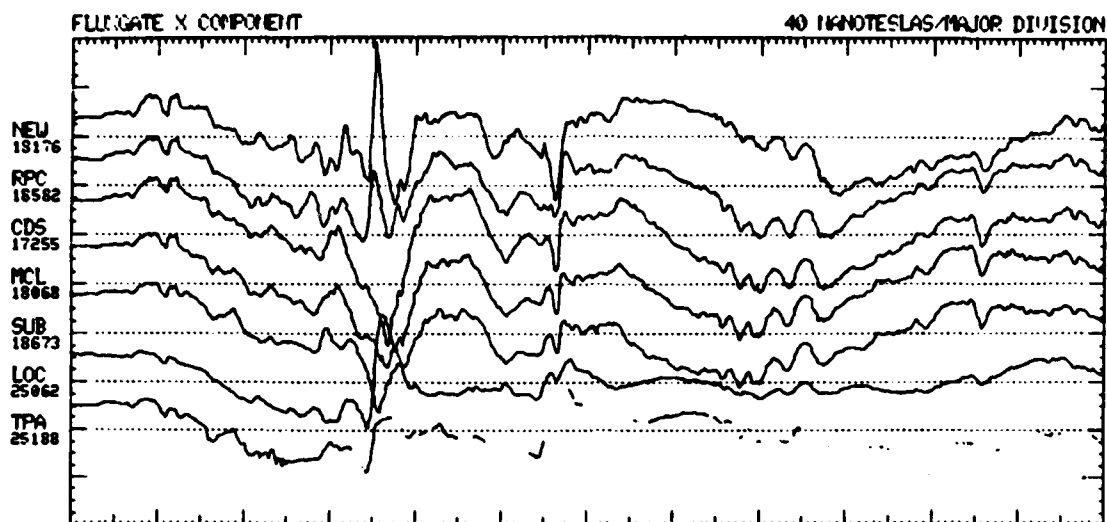


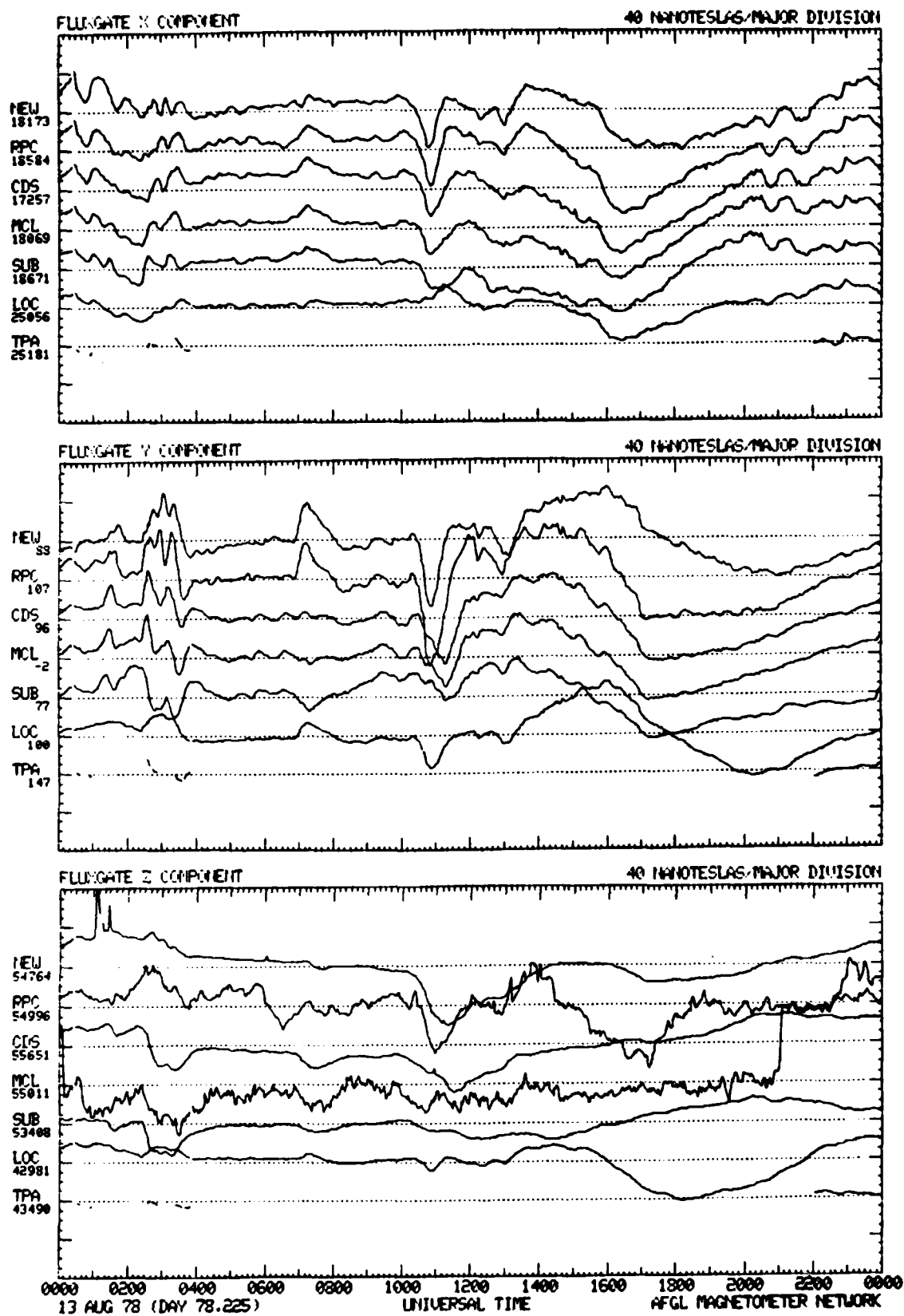


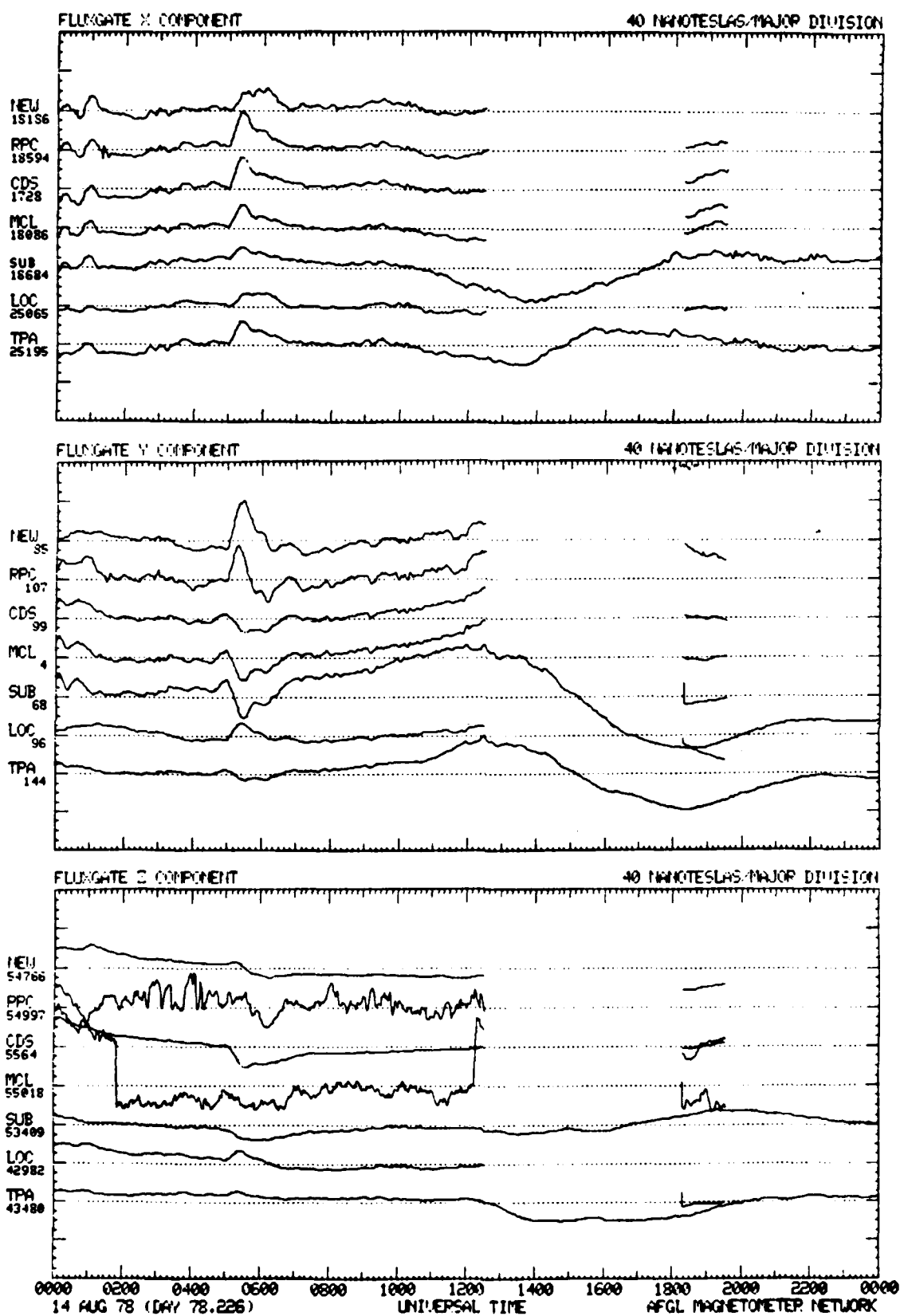


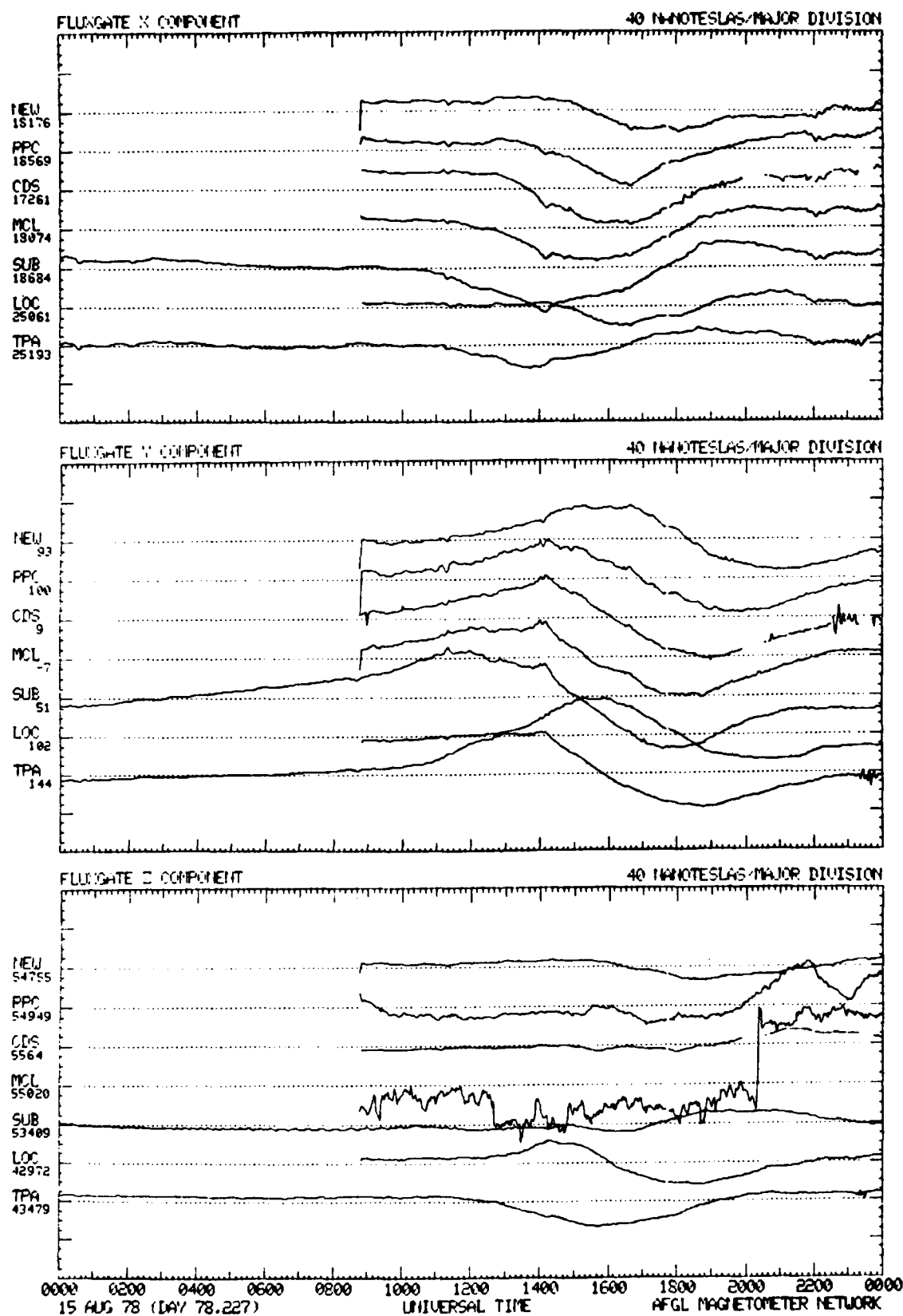


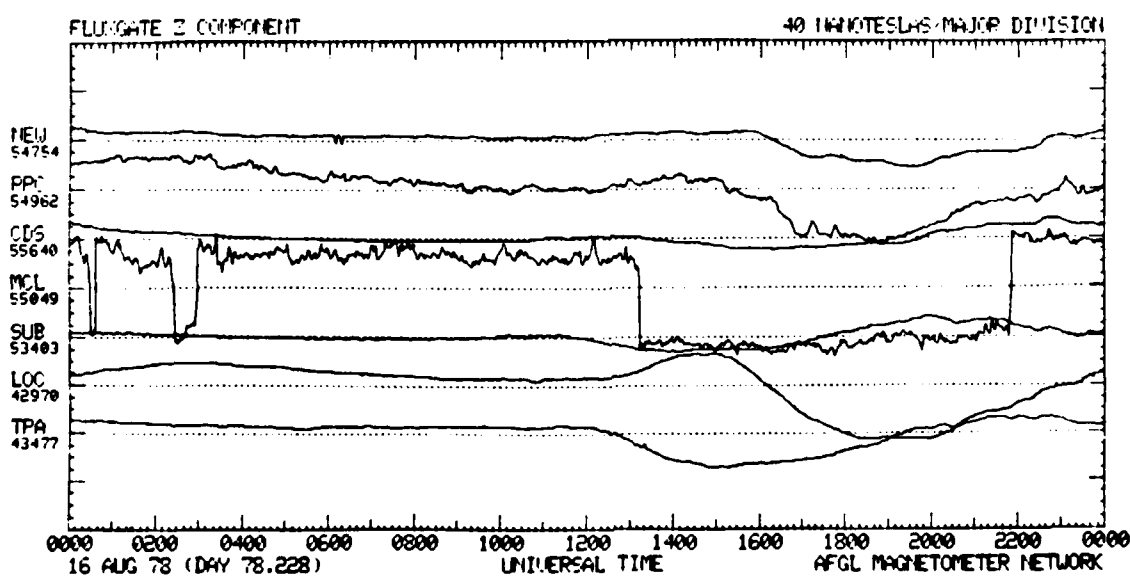
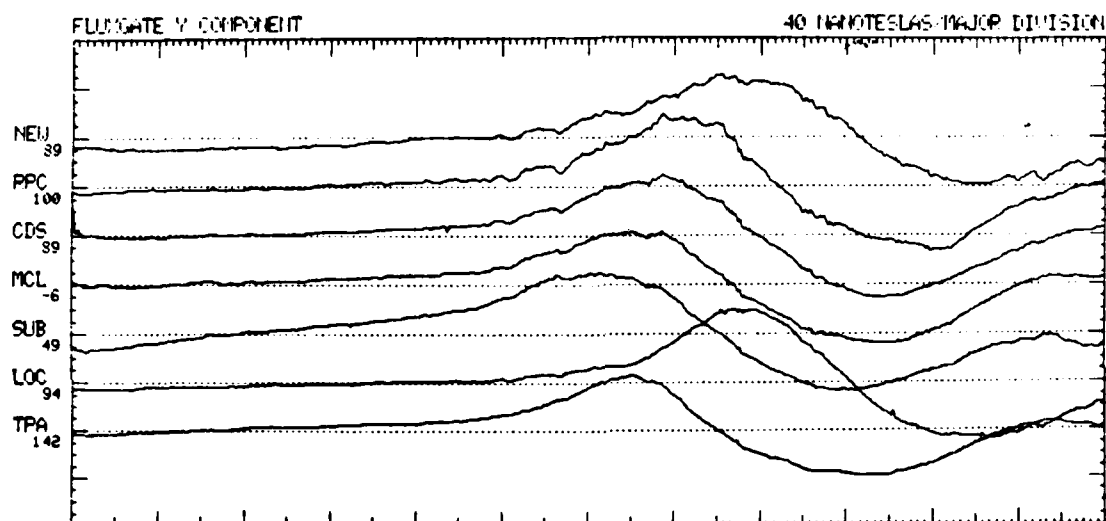
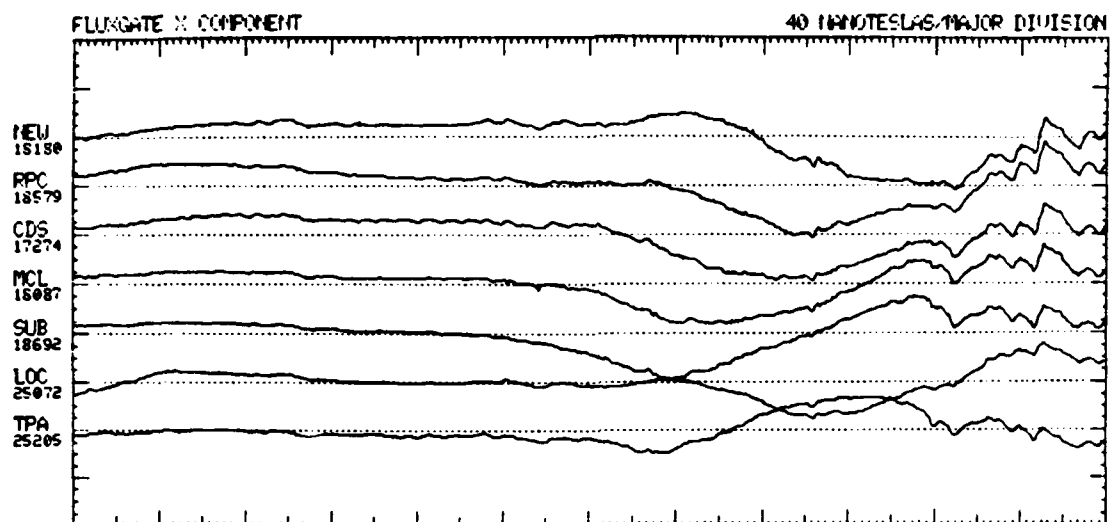




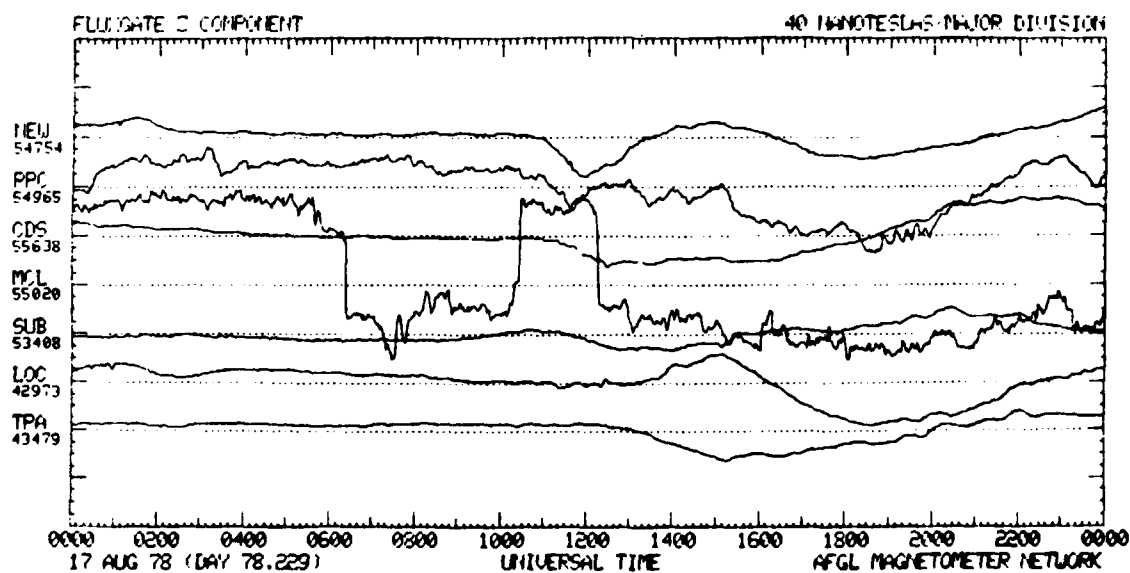
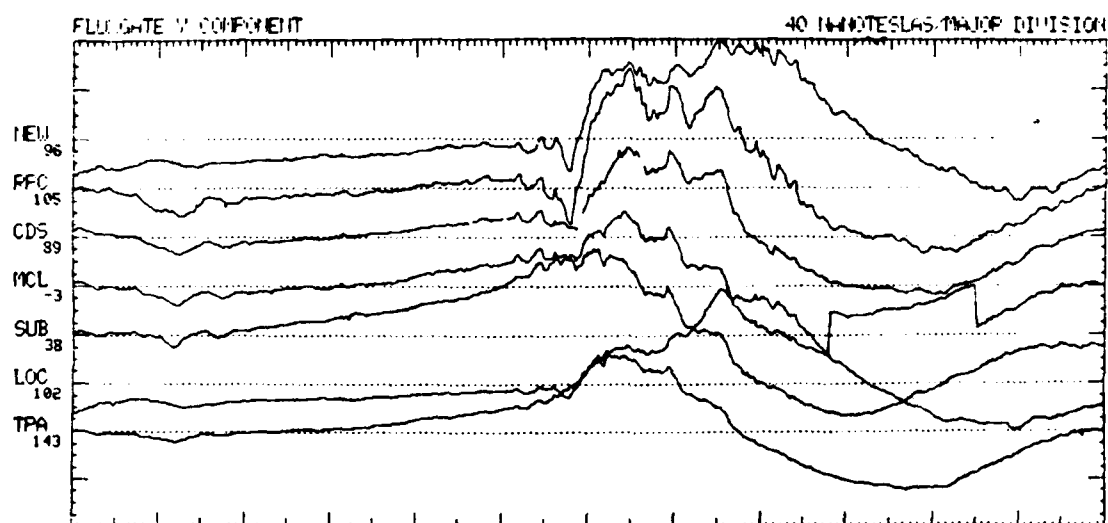
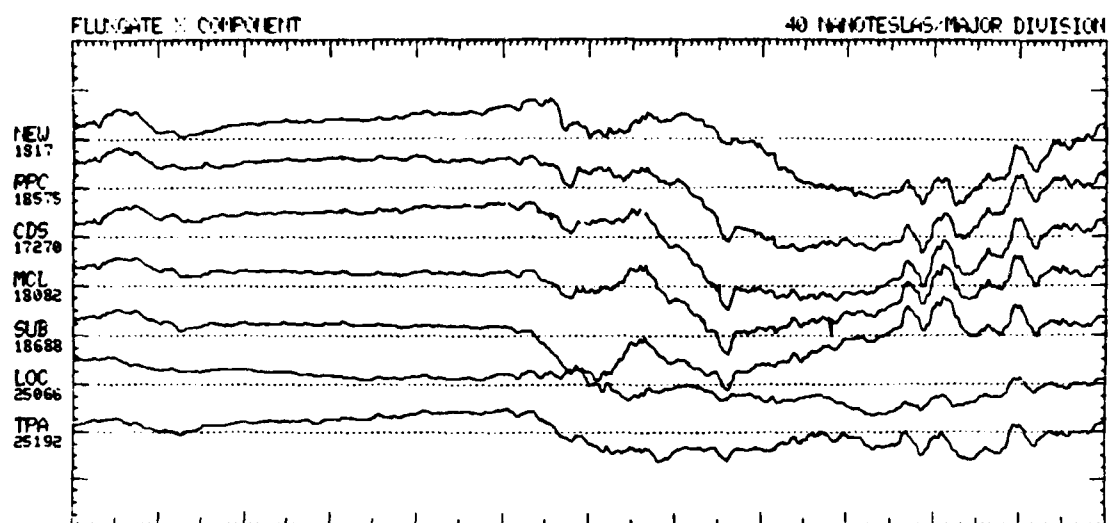


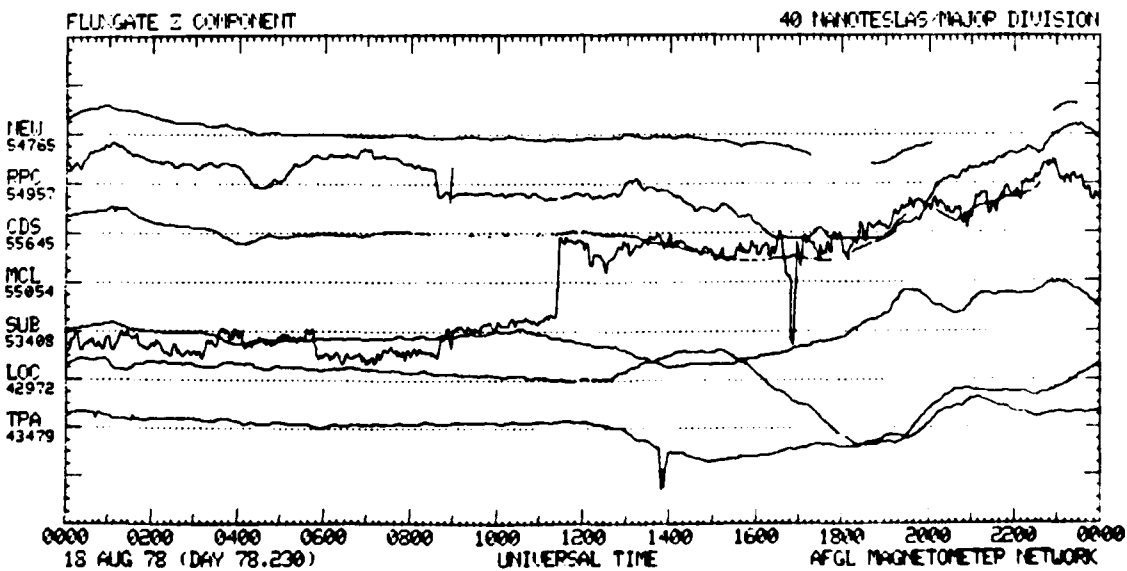
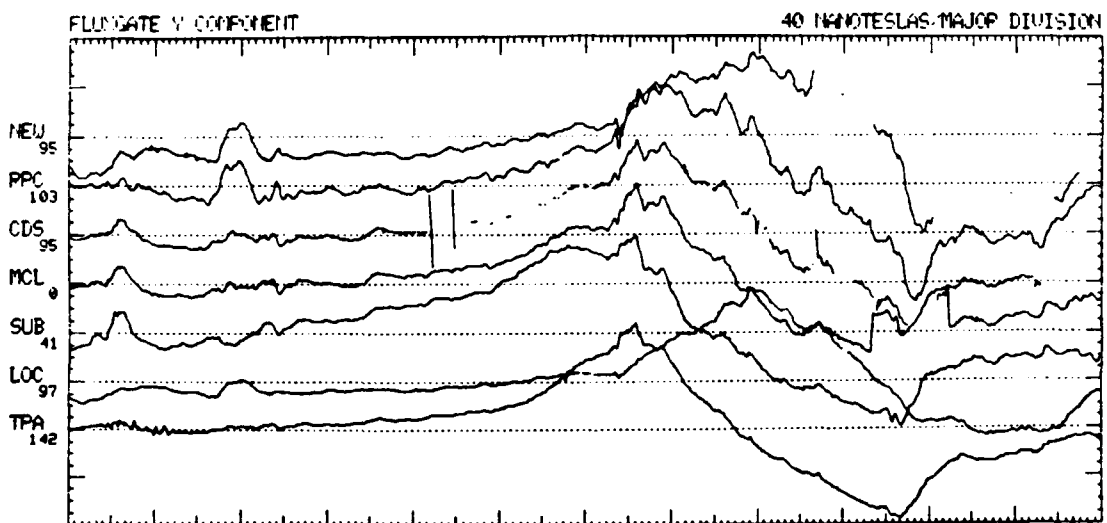
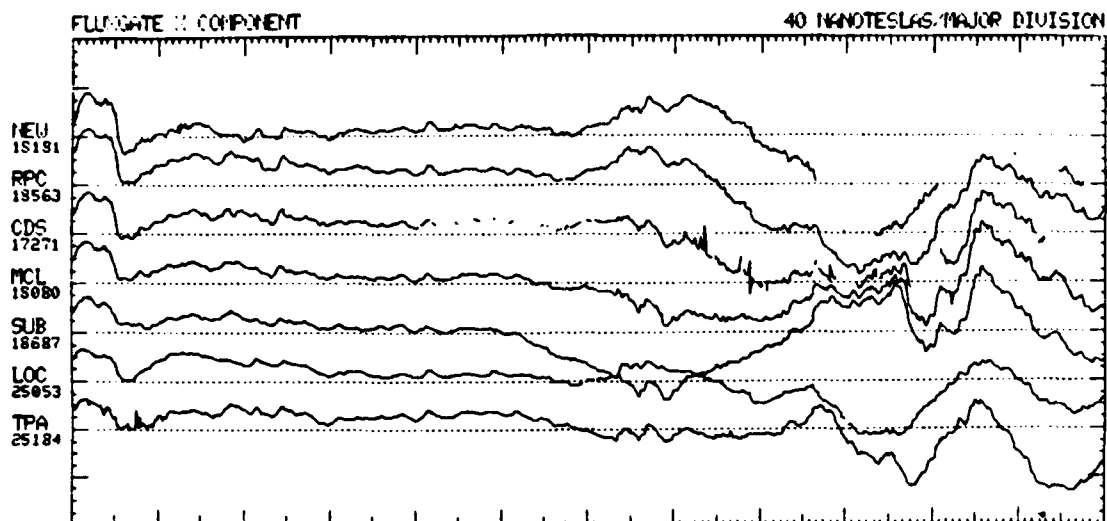


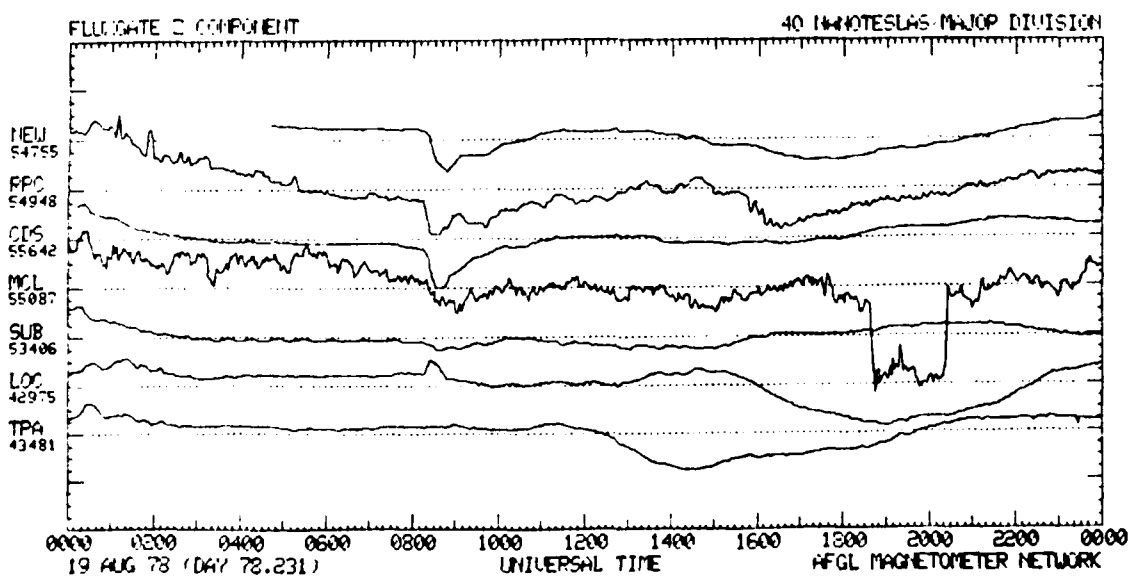
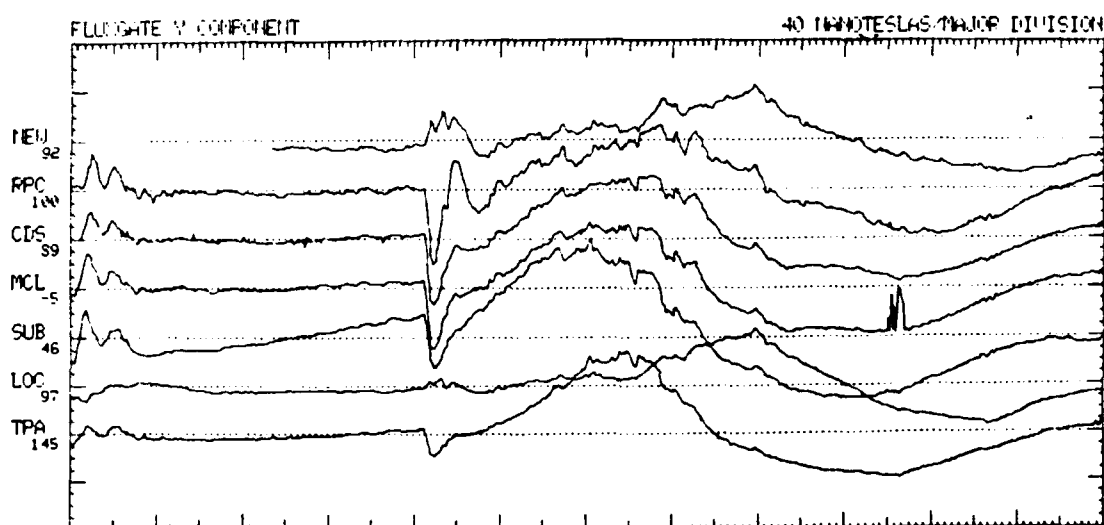
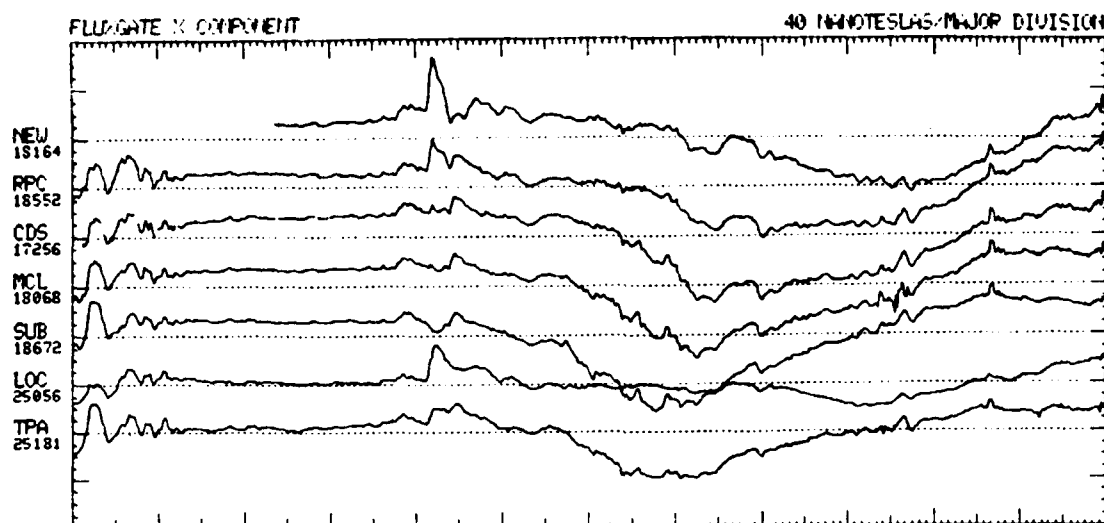


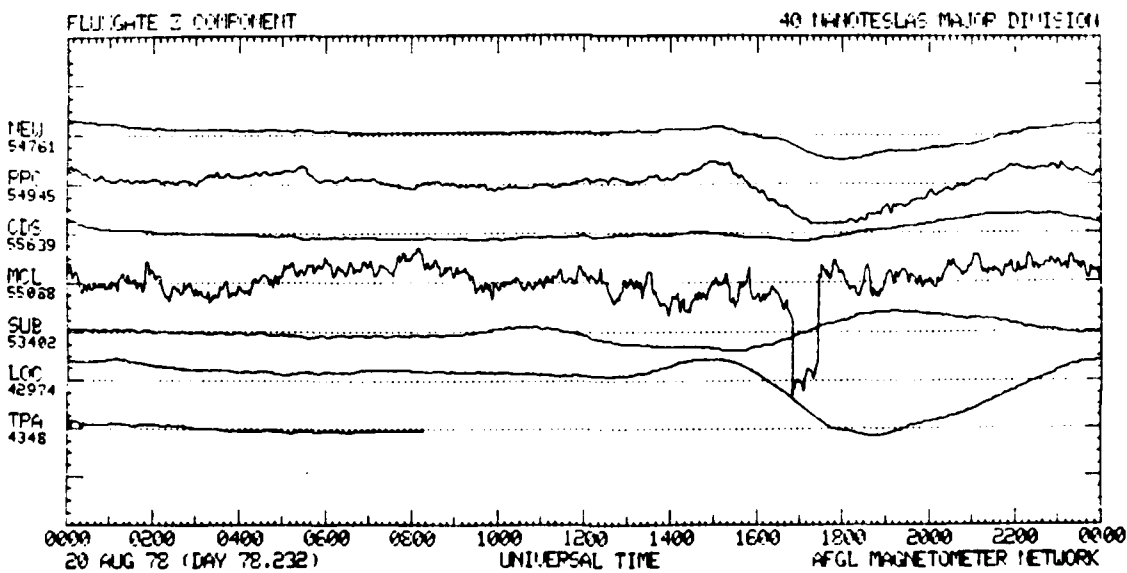
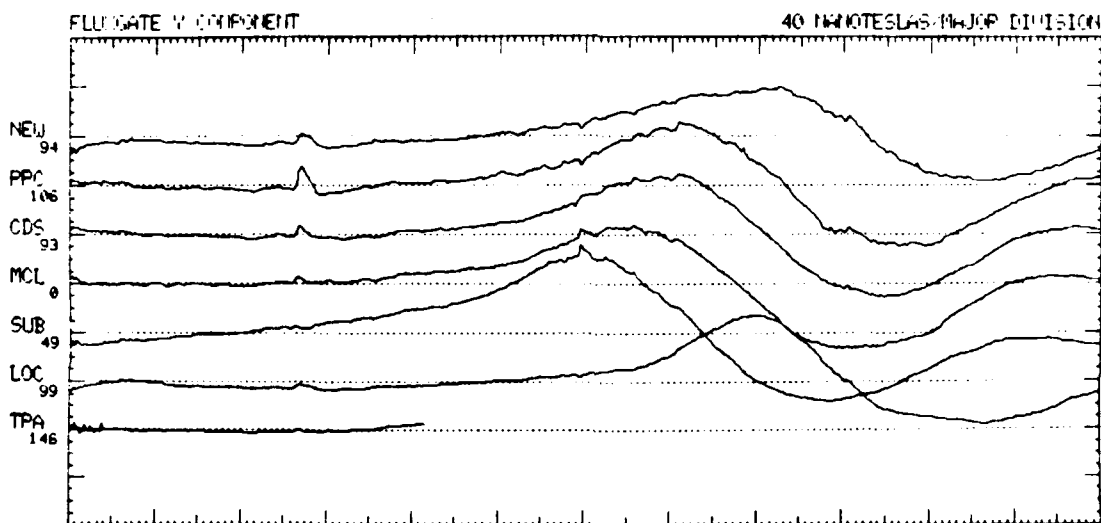
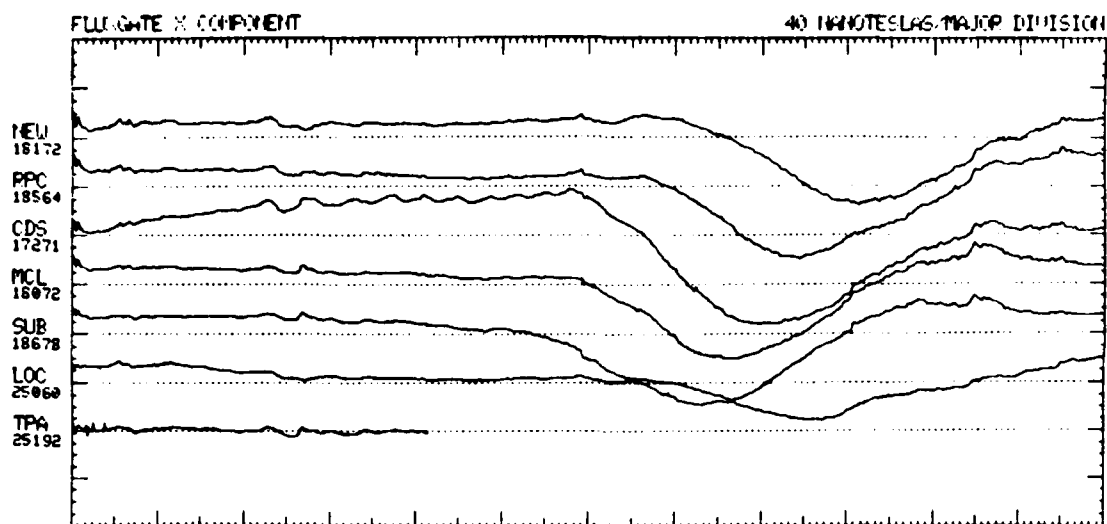


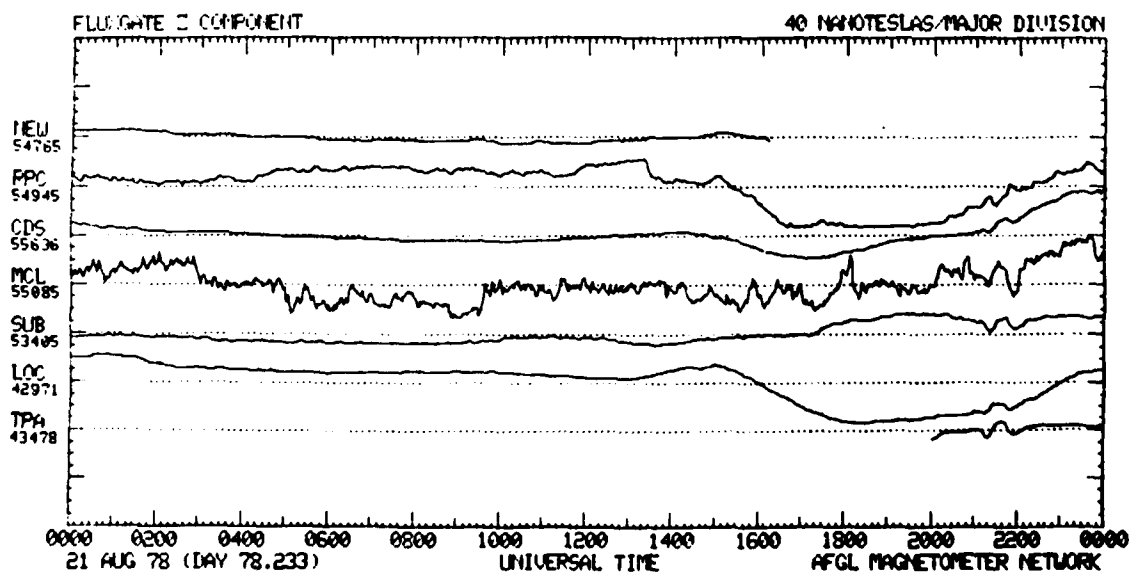
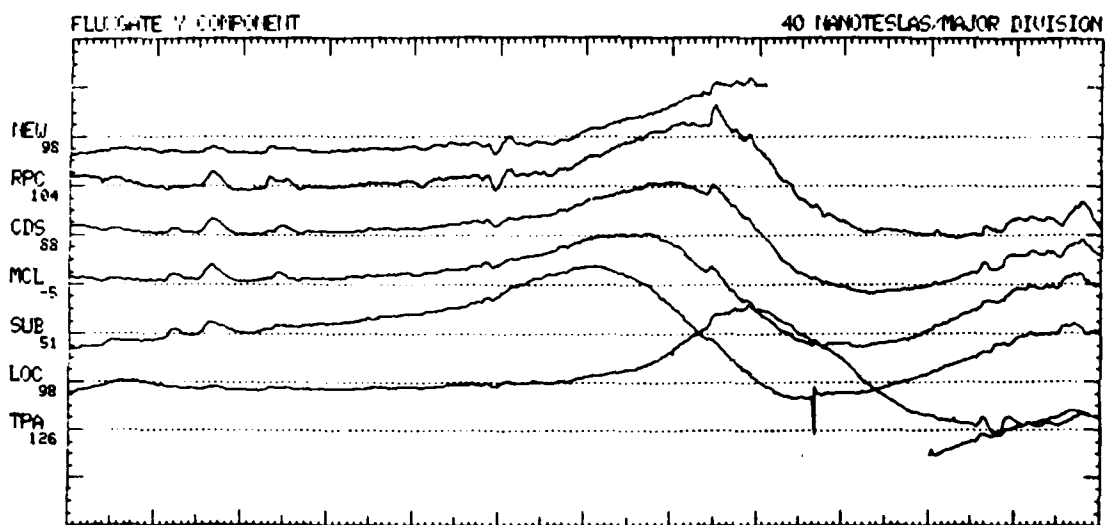
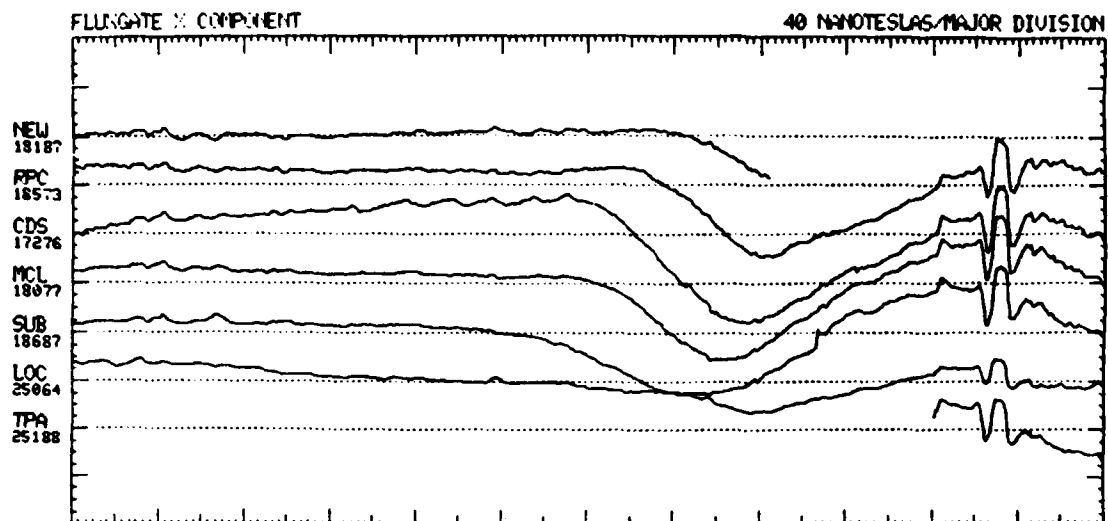
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16 AUG 78 (DAY 78.228) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

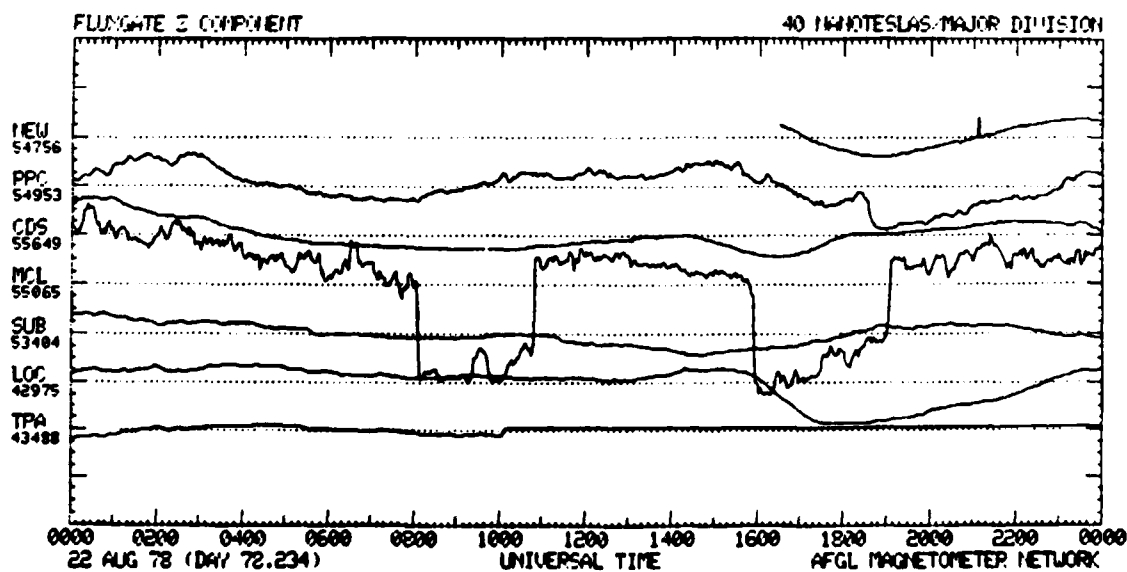
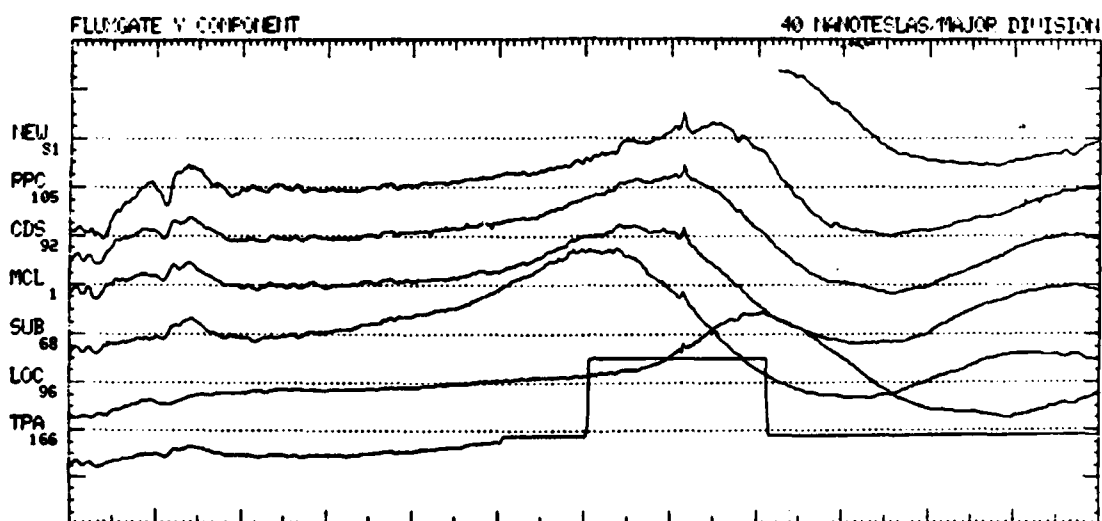
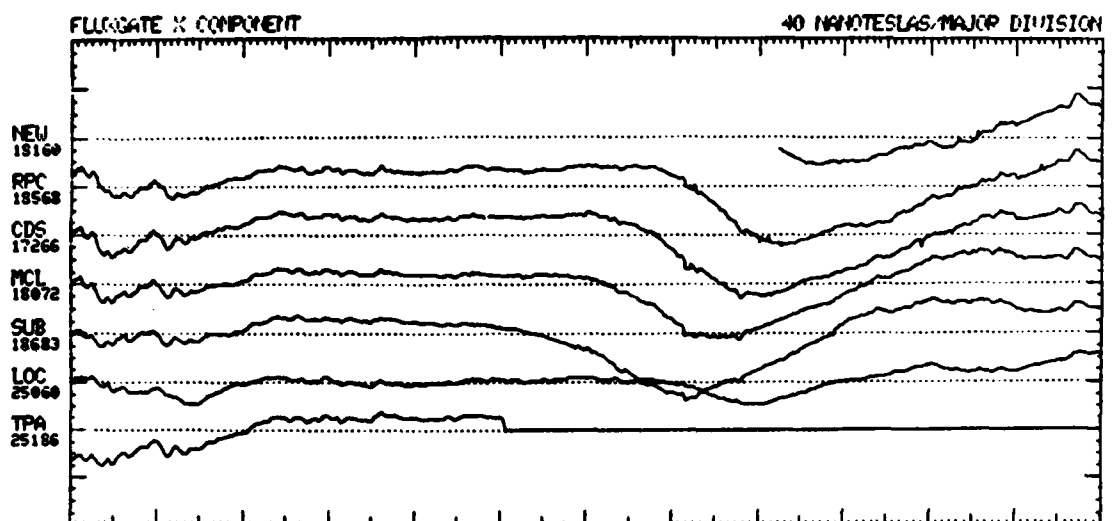


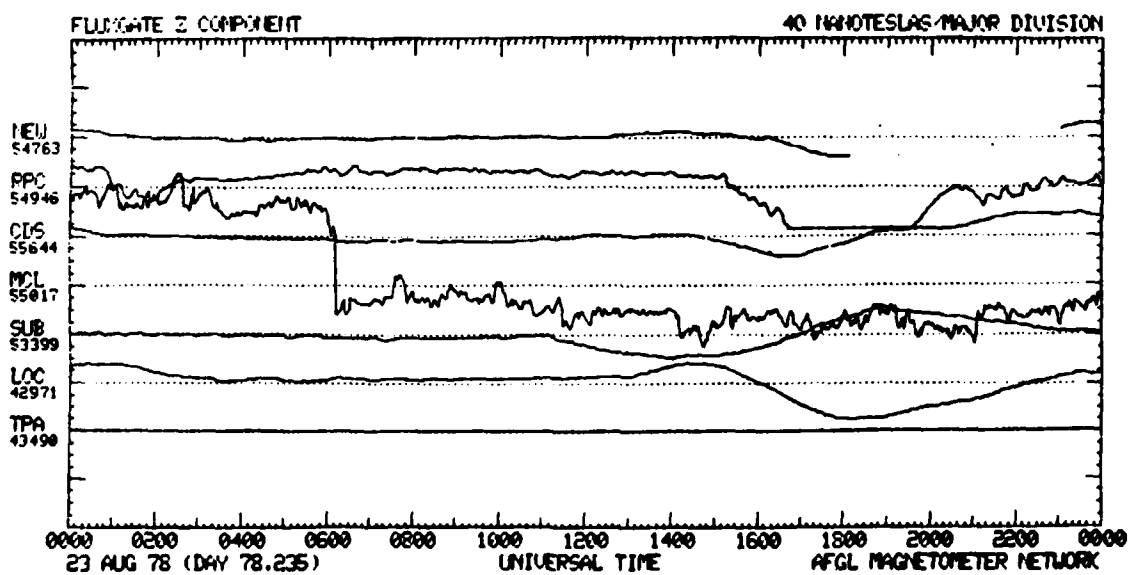
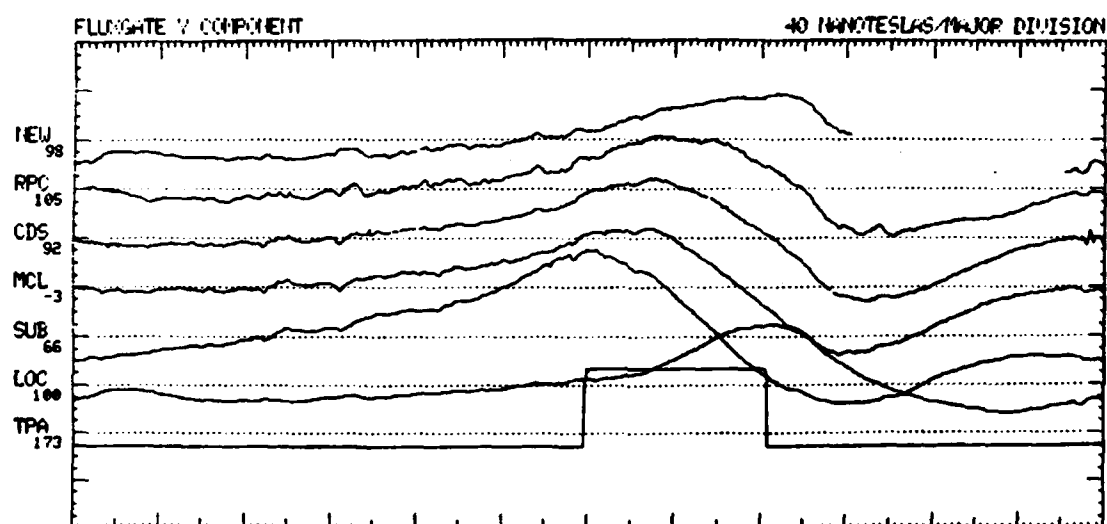
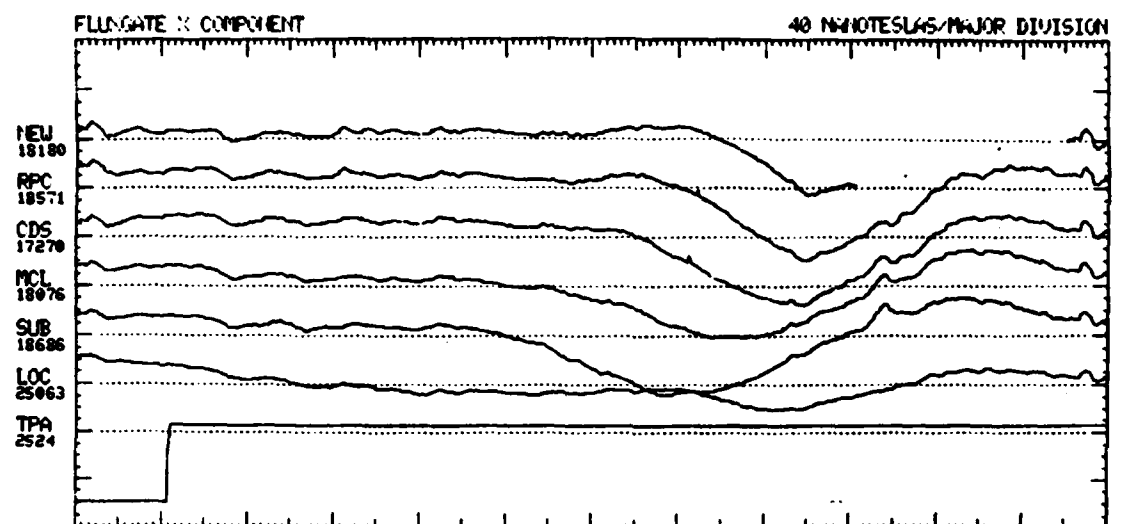


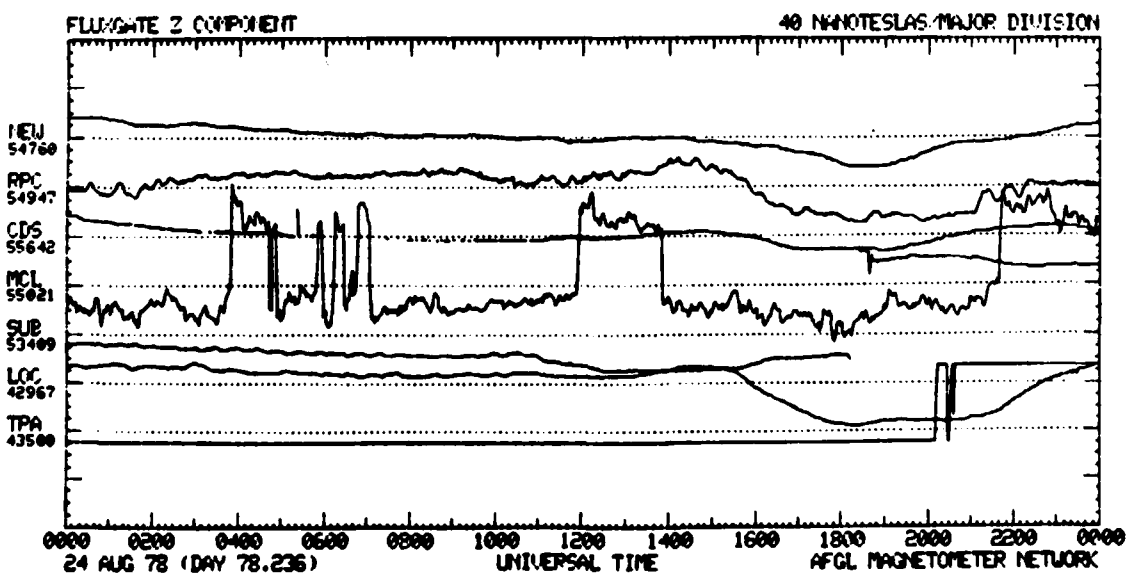
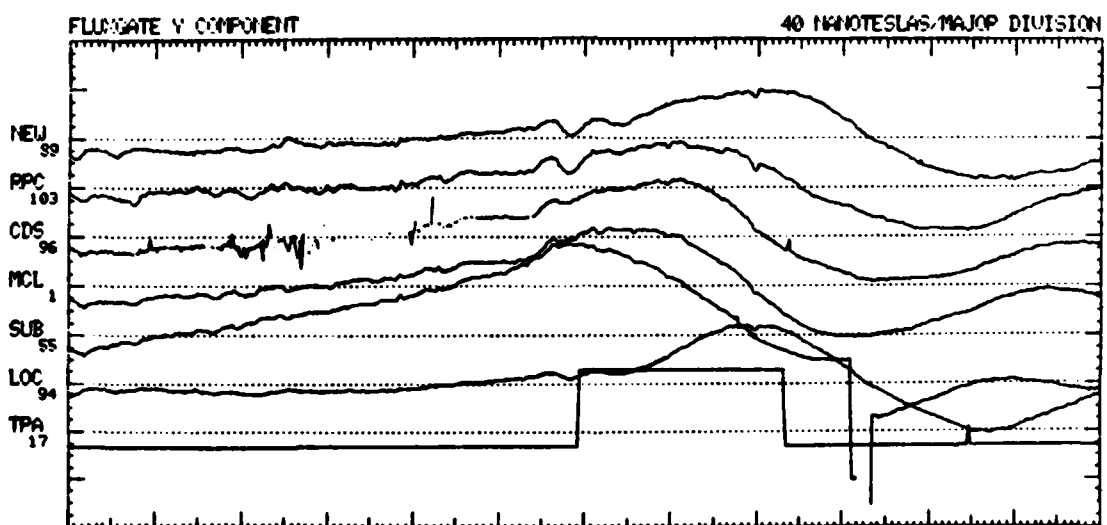
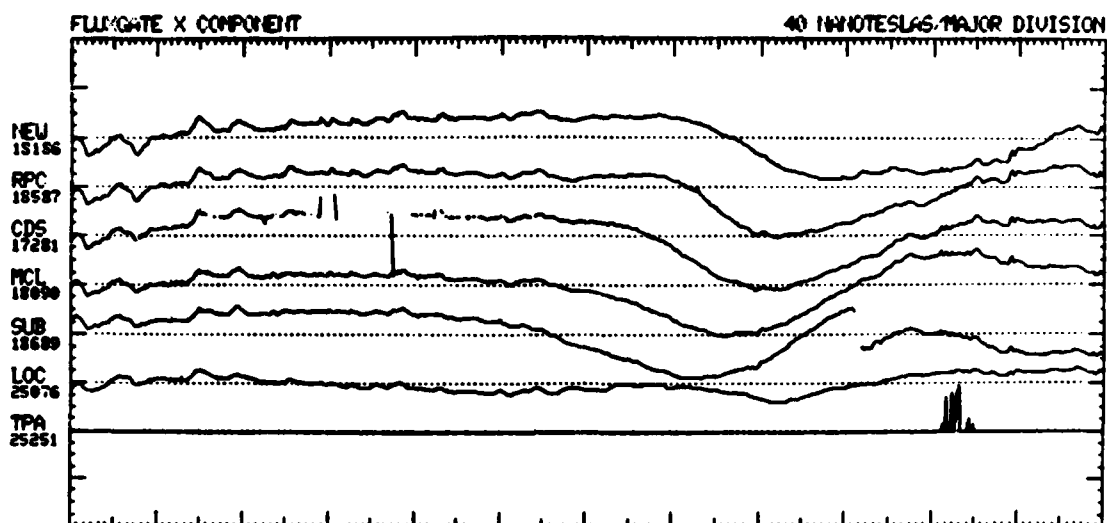


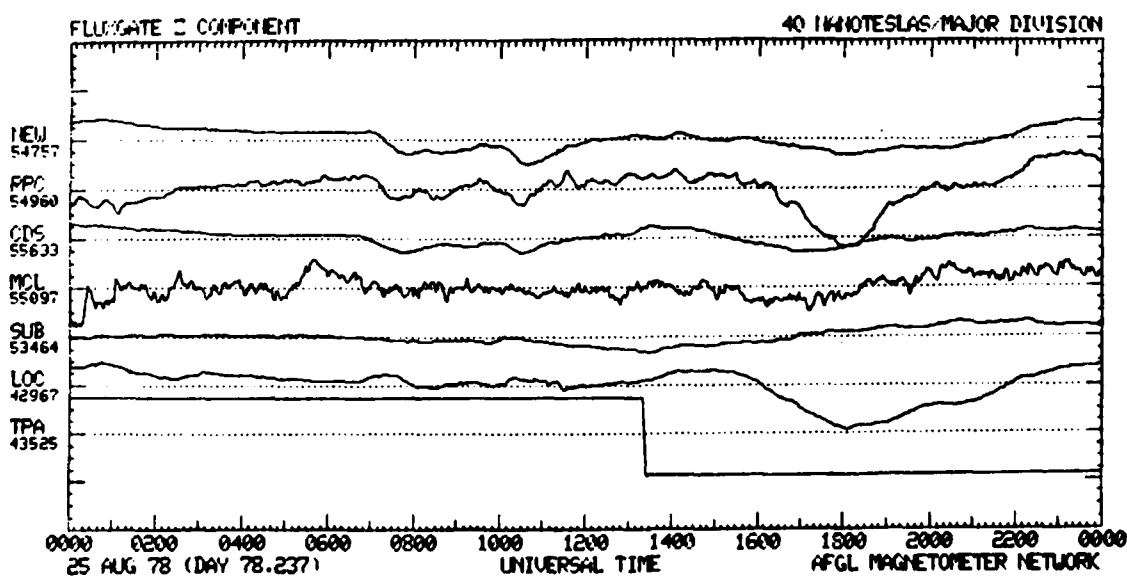
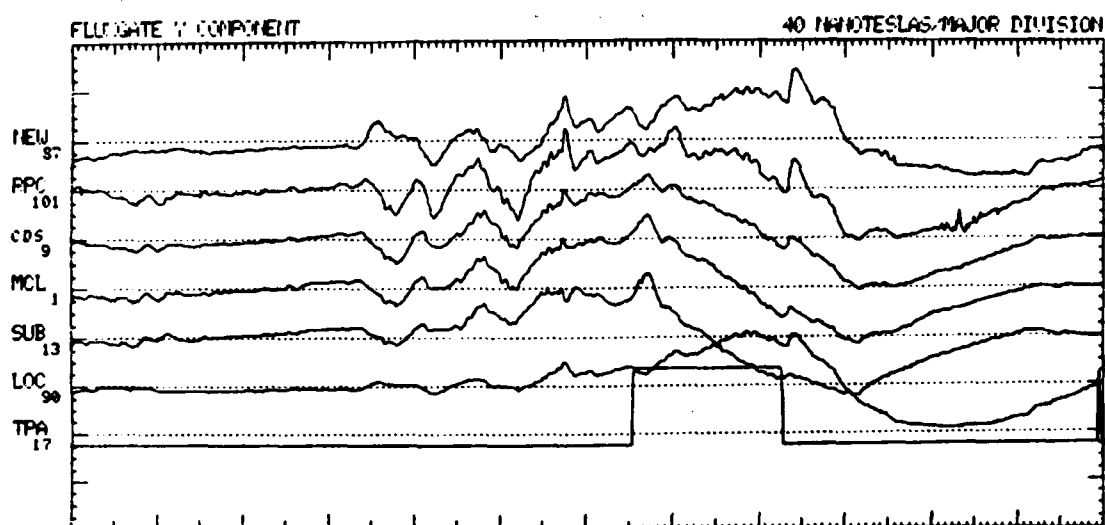
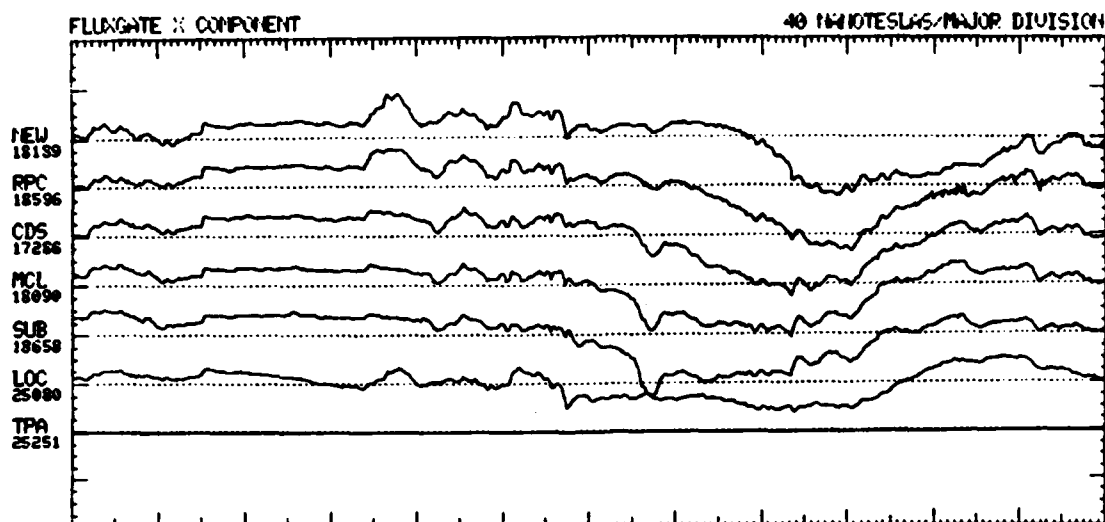


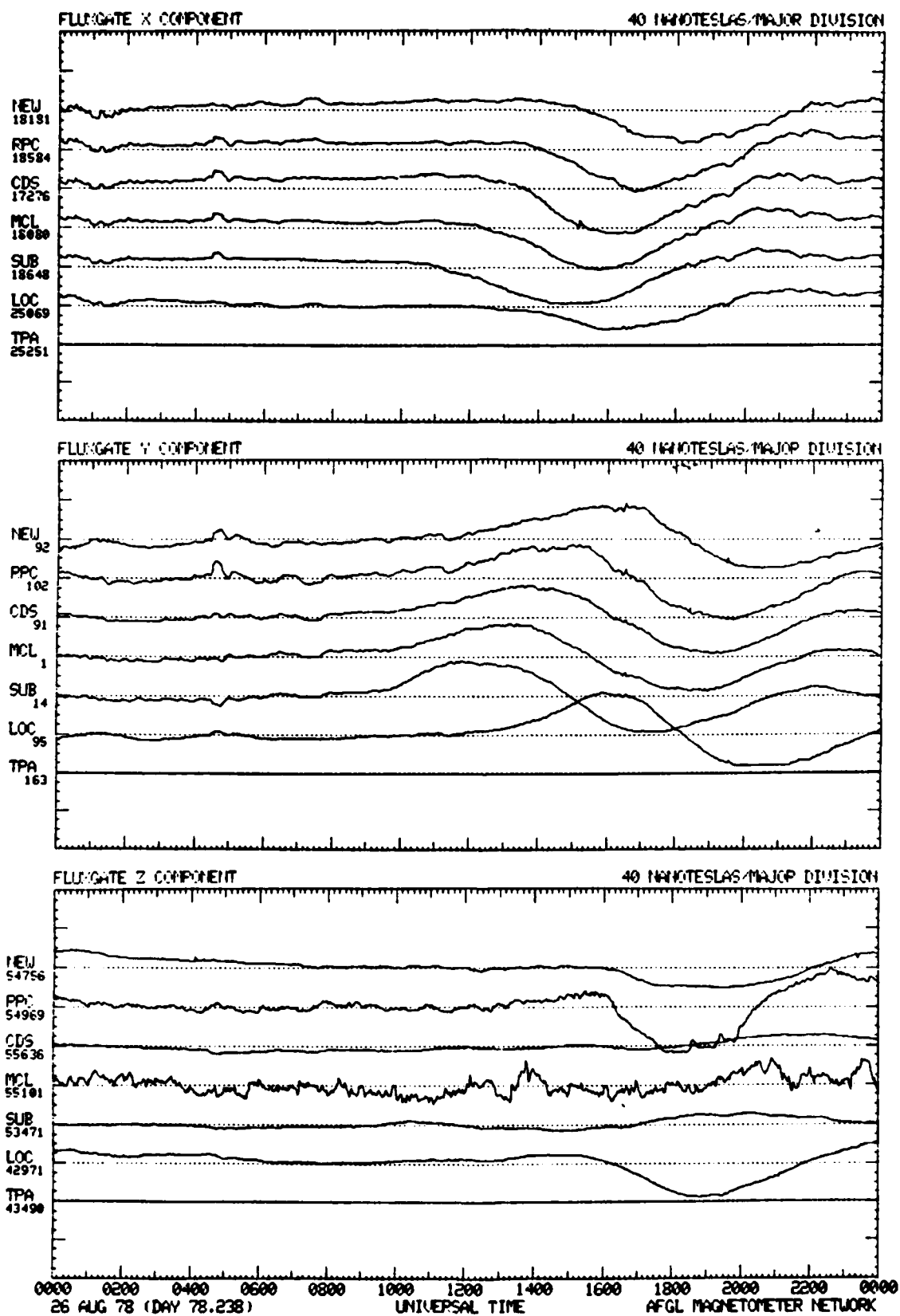


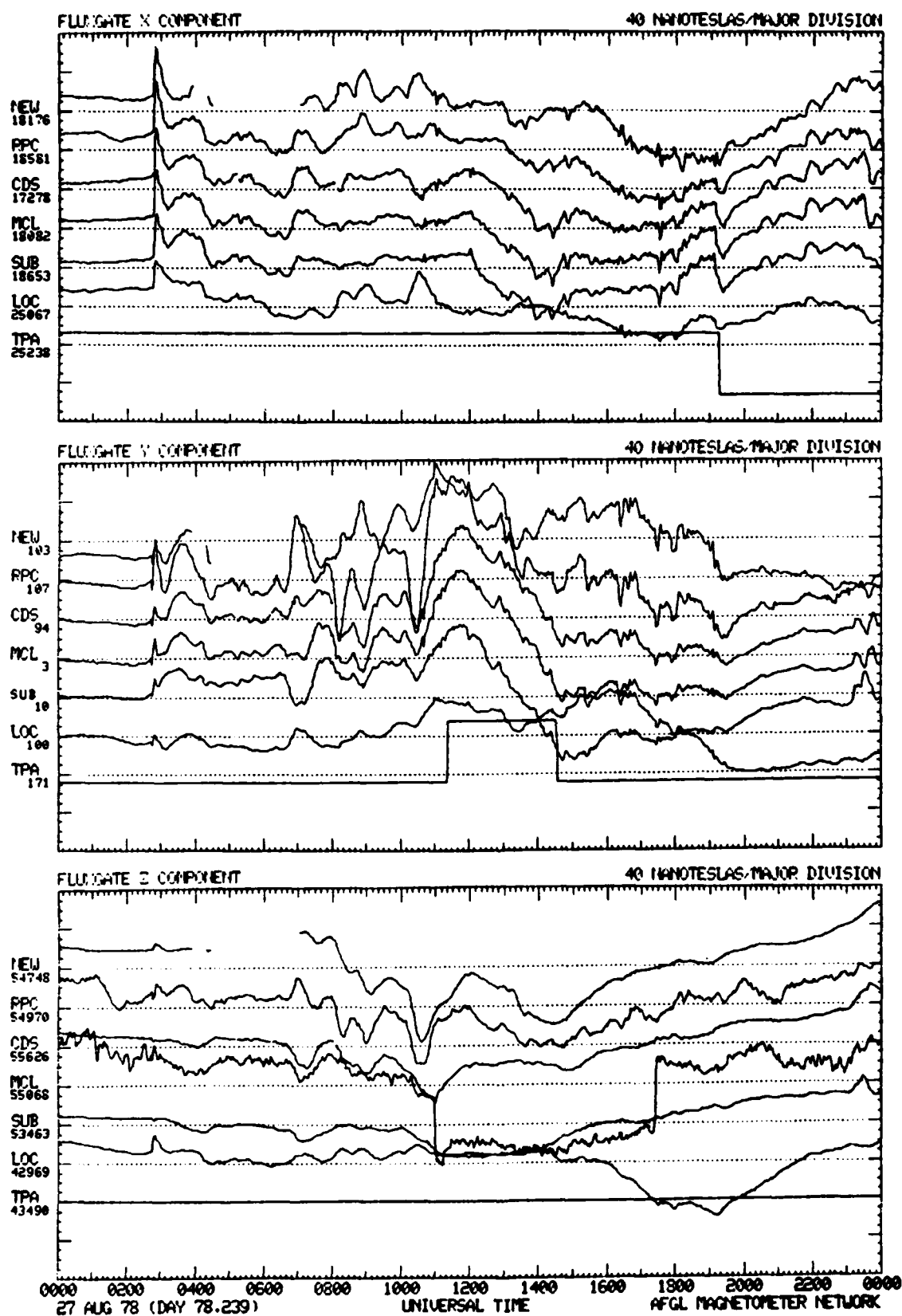


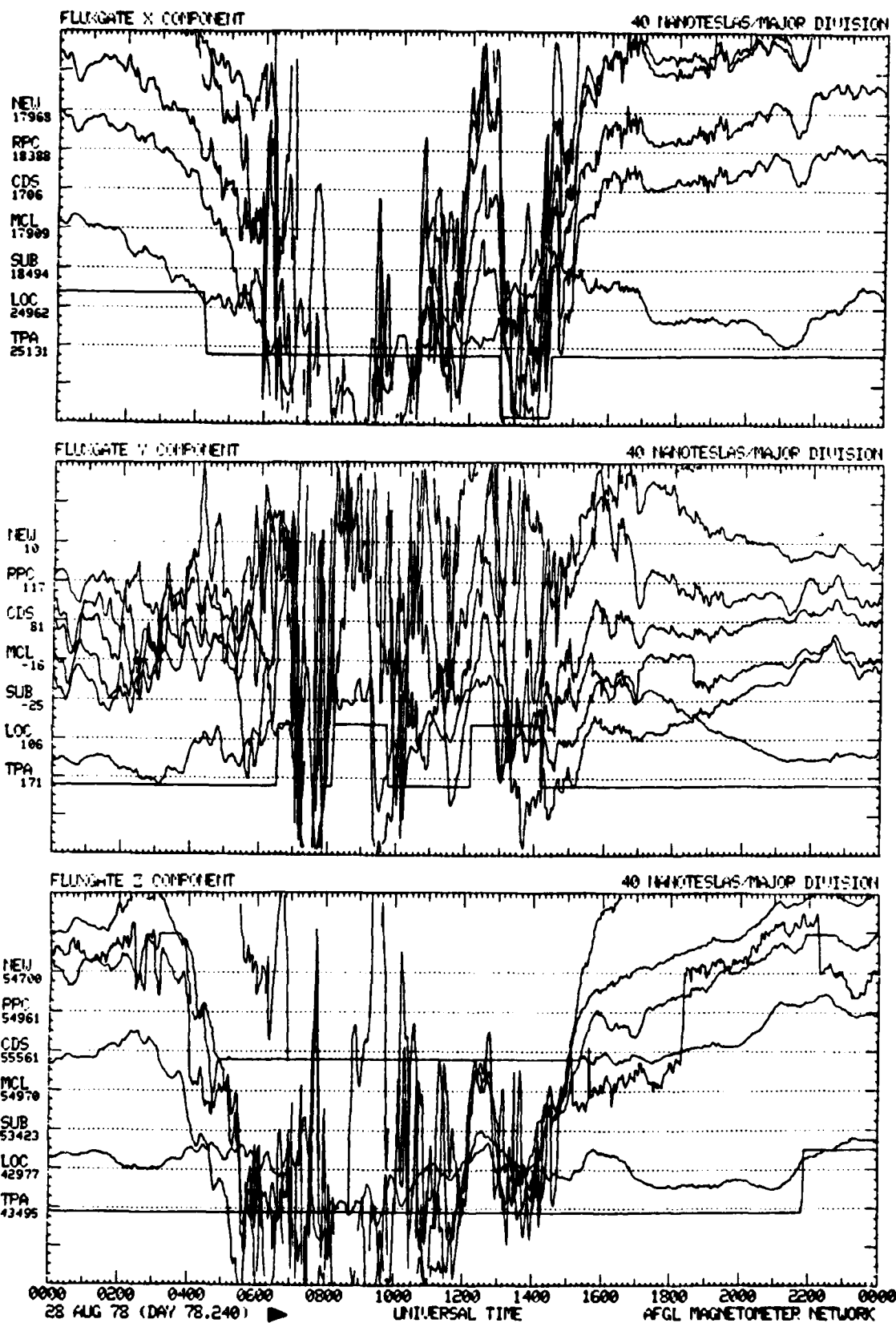


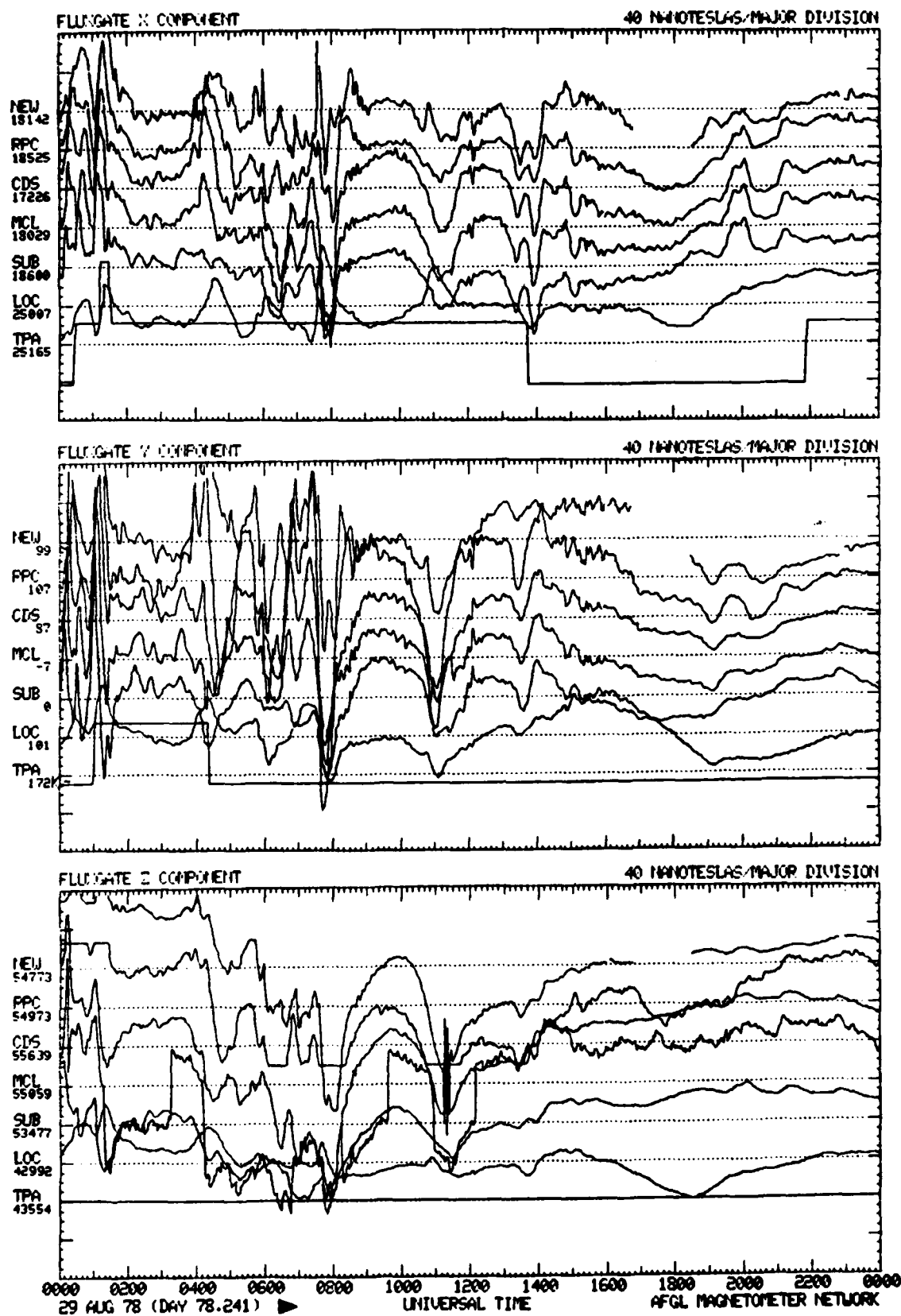


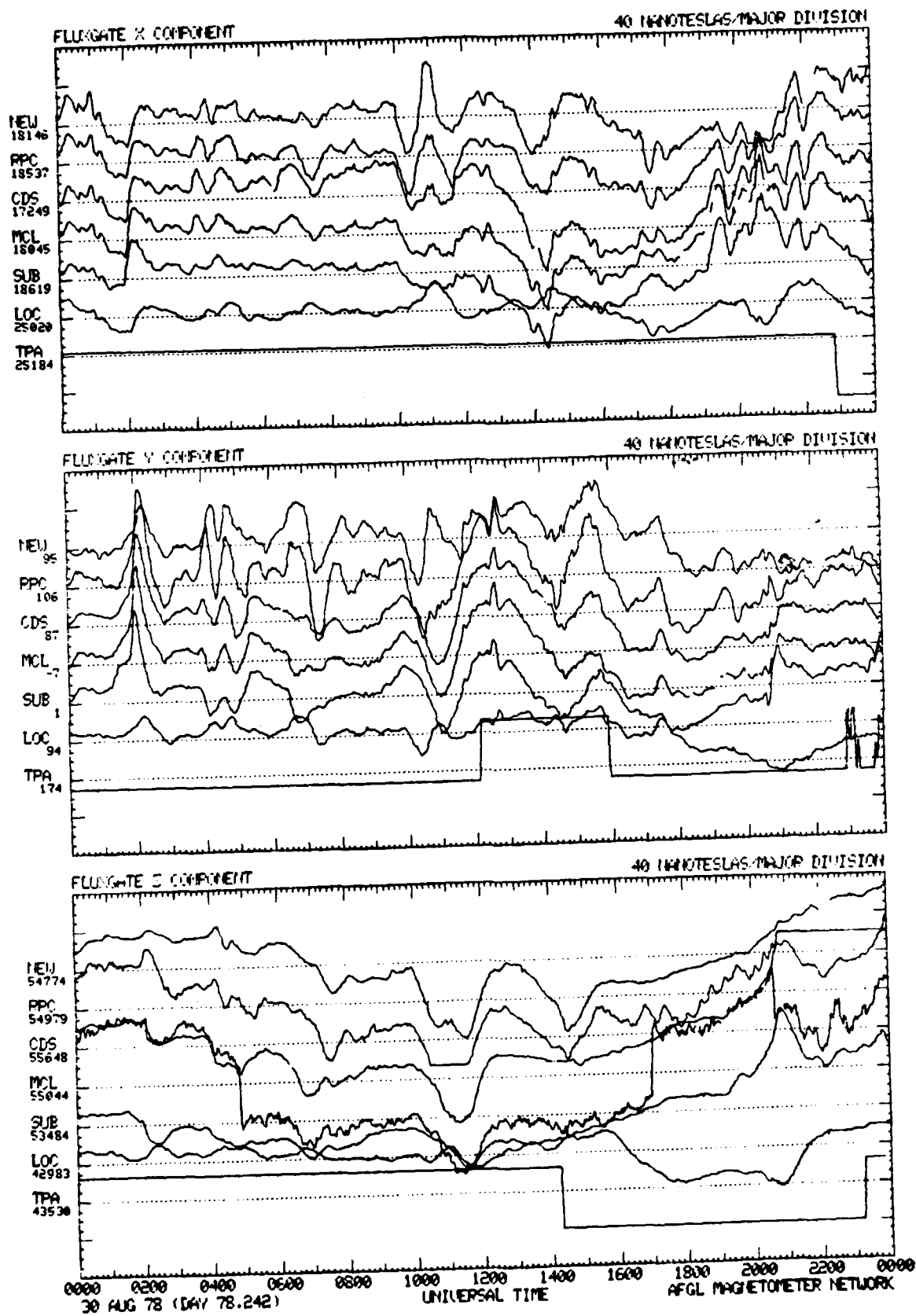


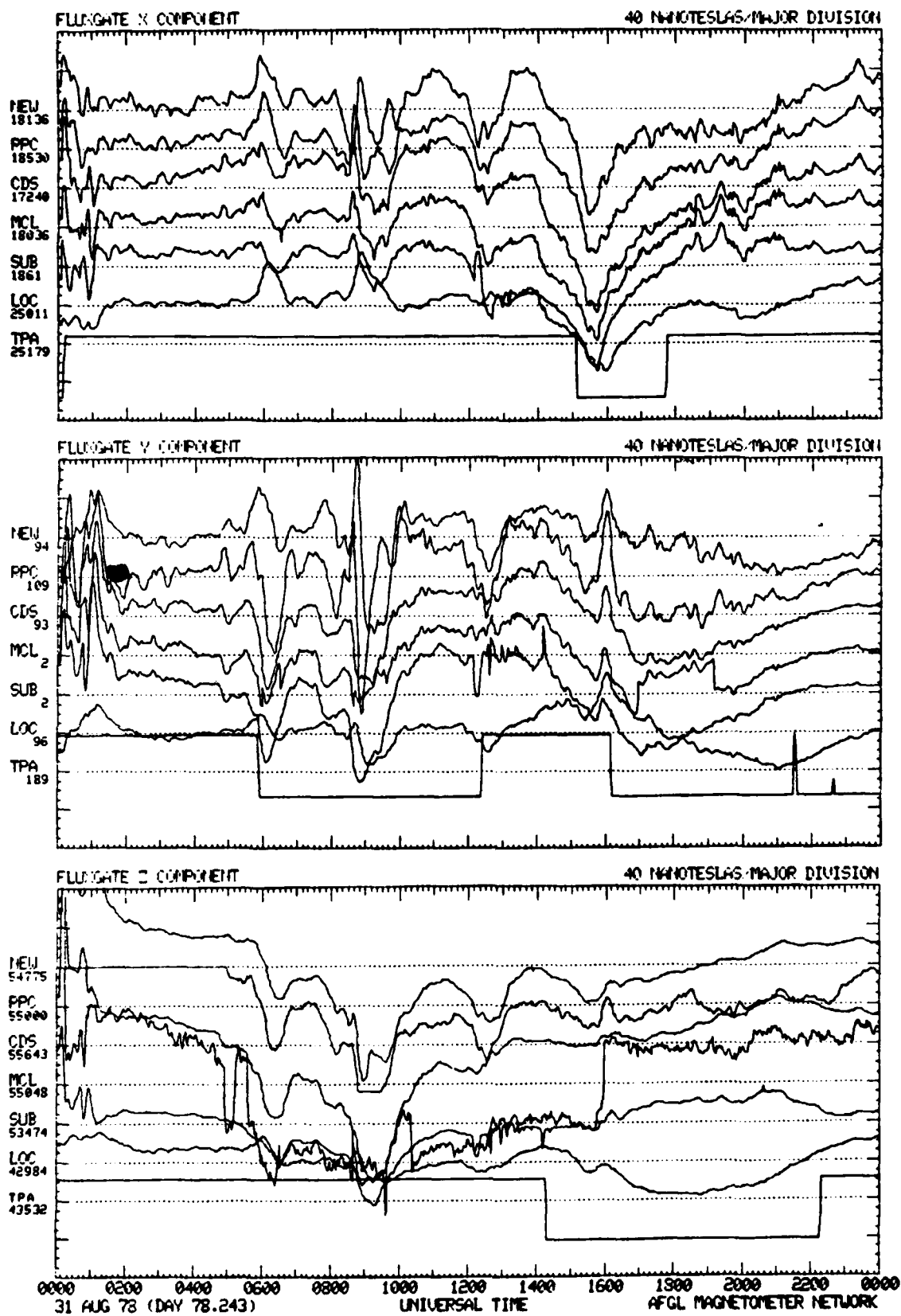


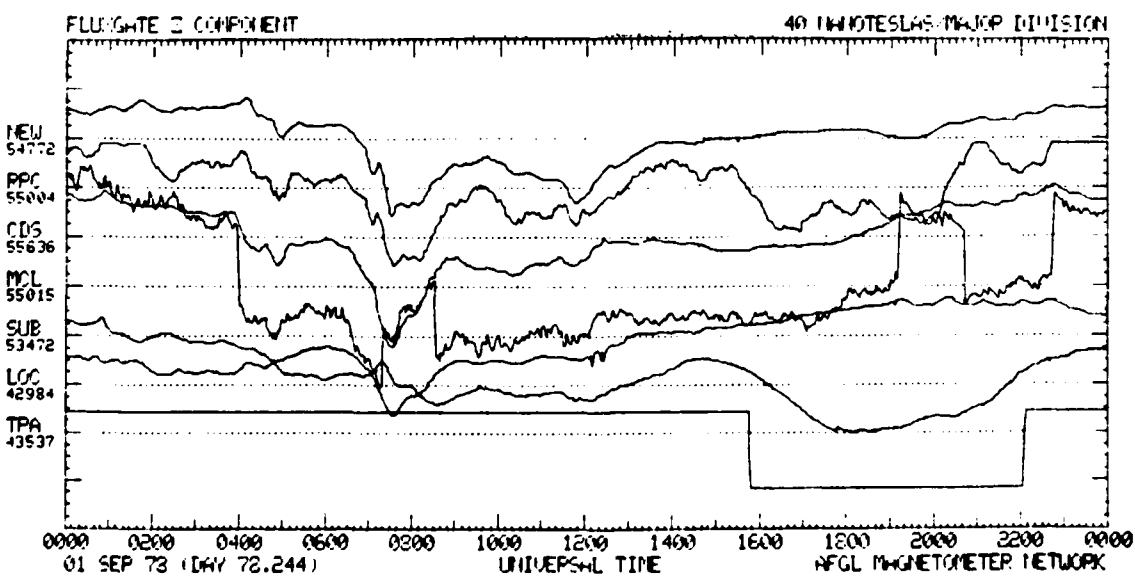
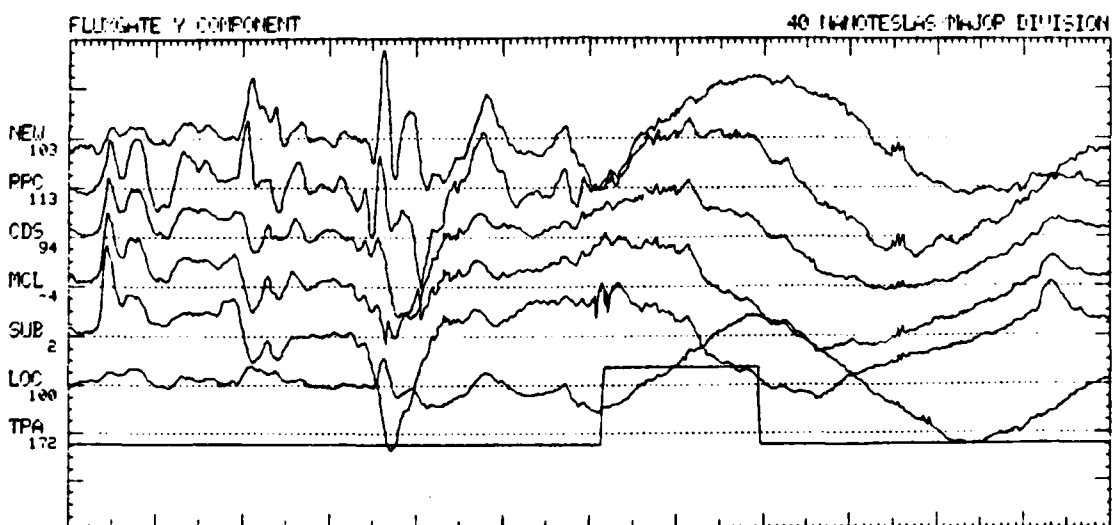
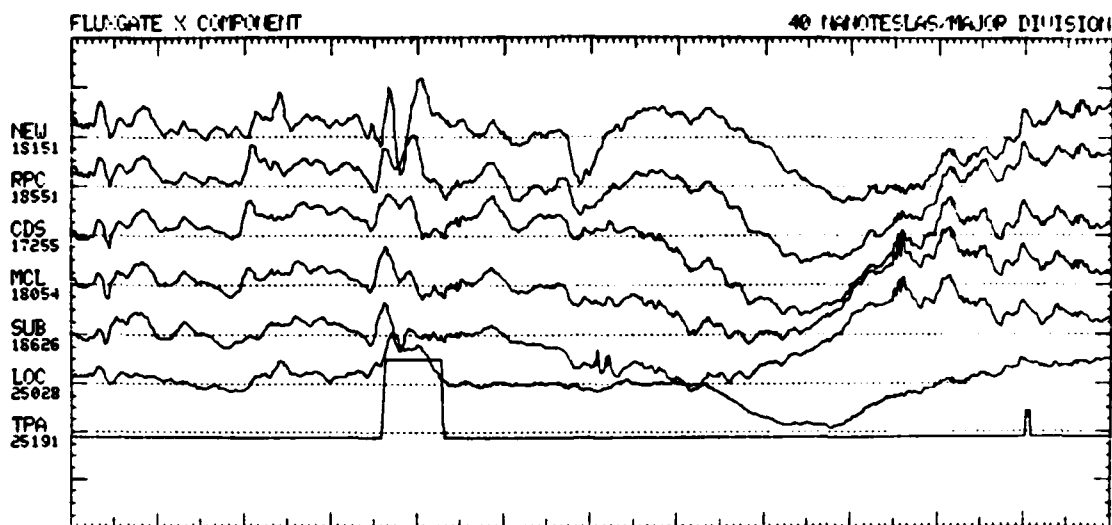


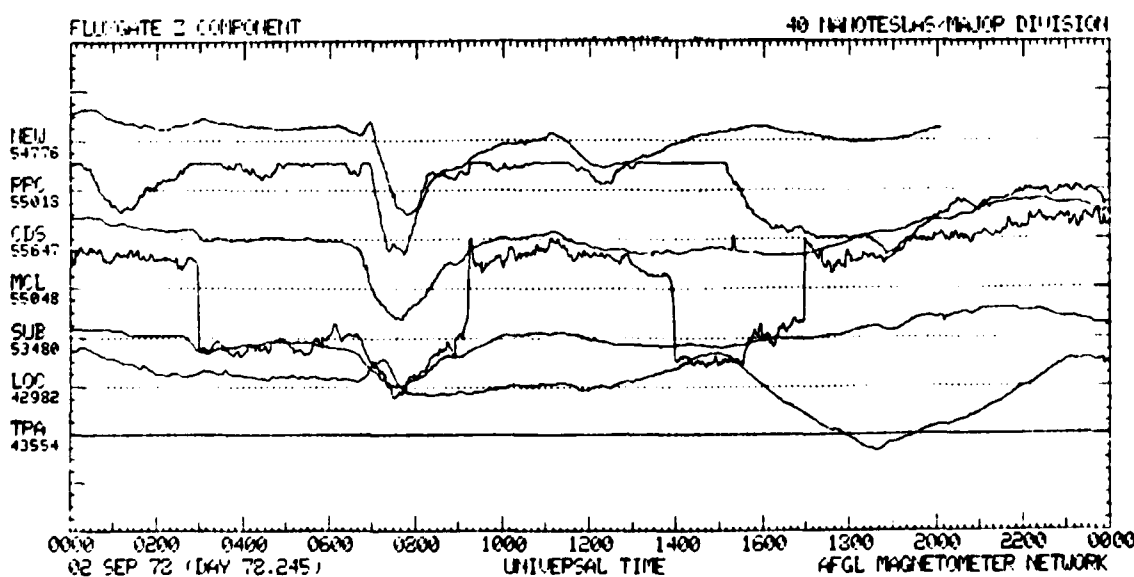
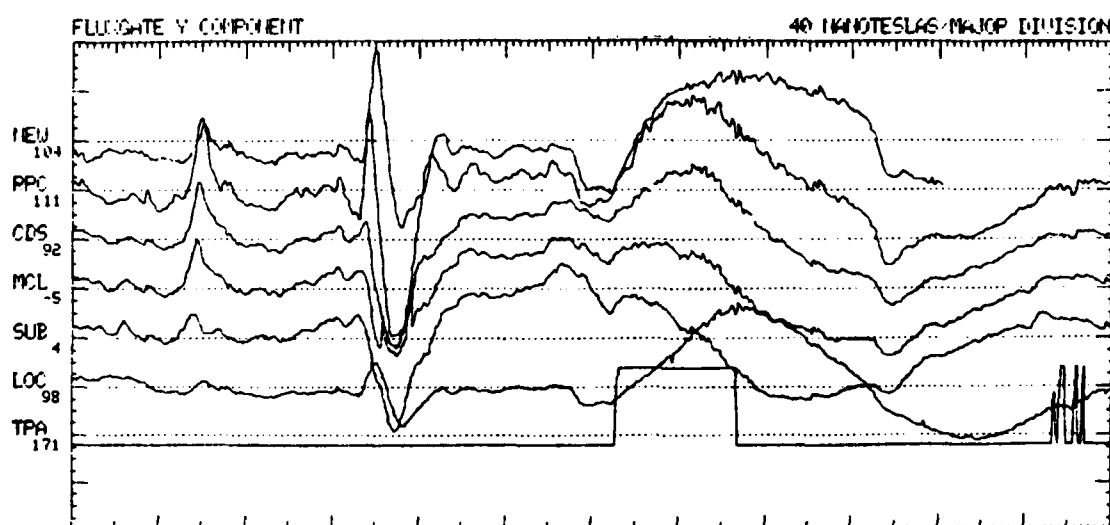
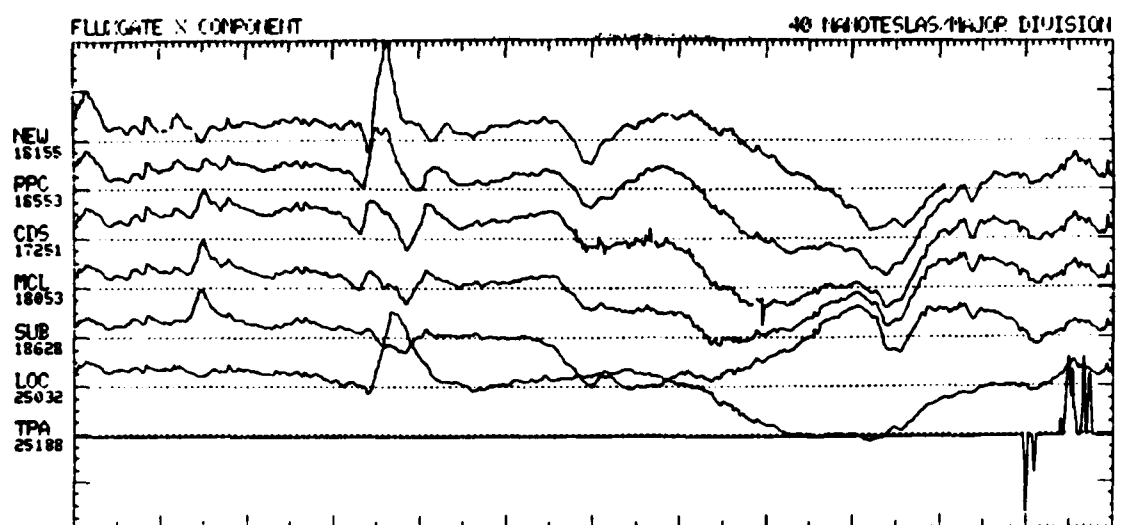




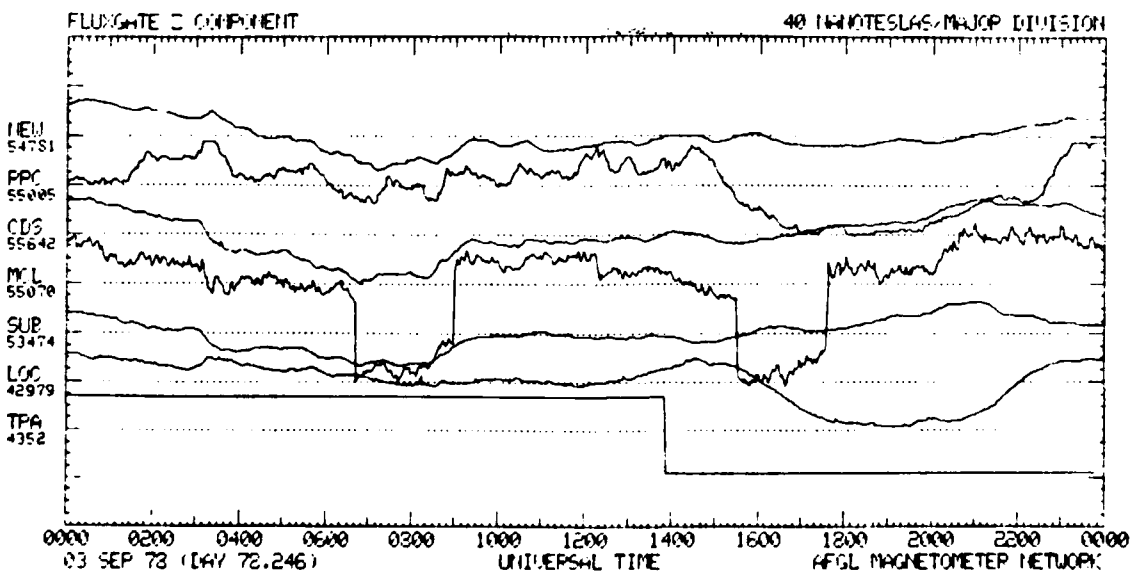
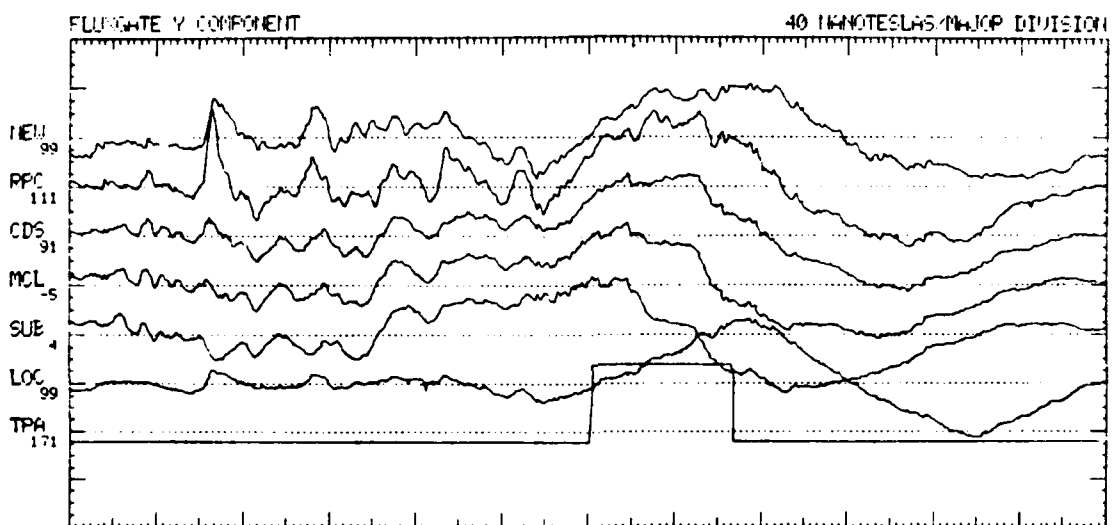
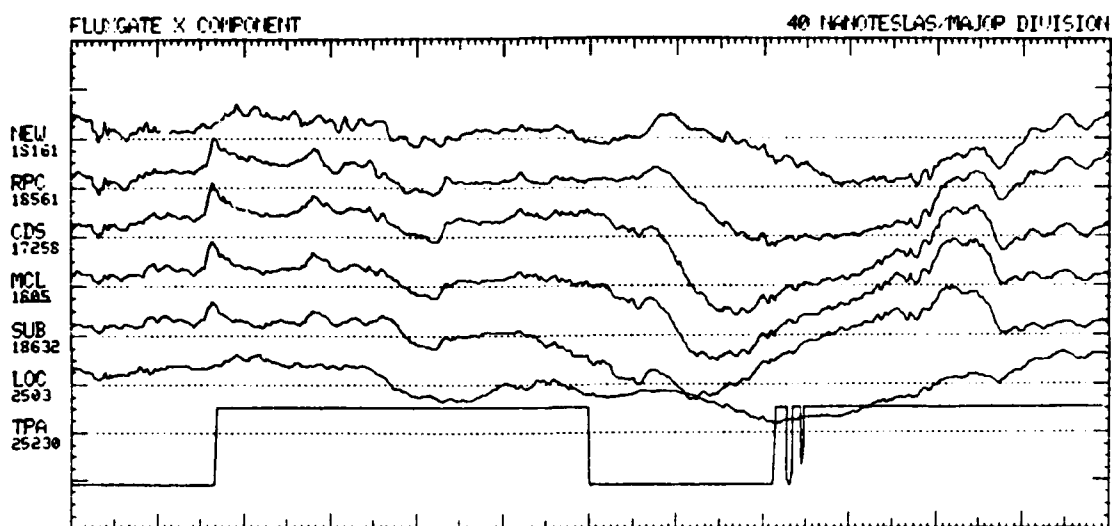


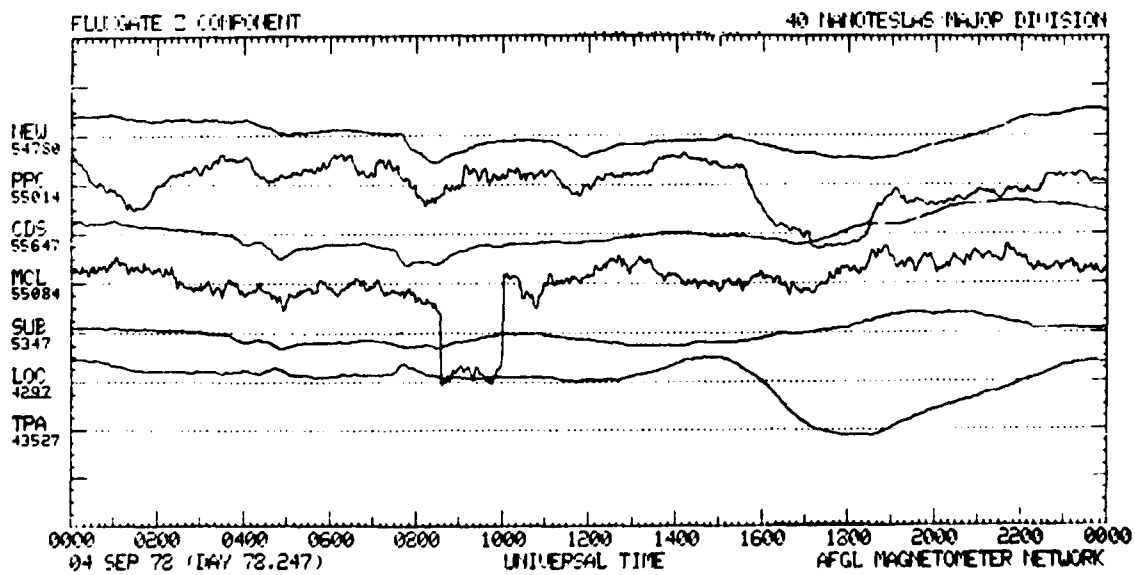
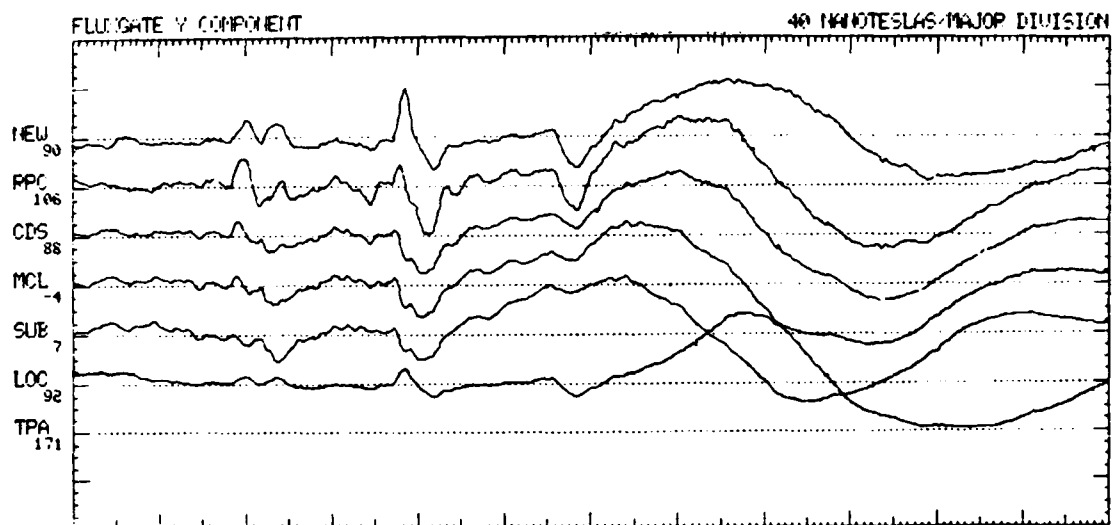
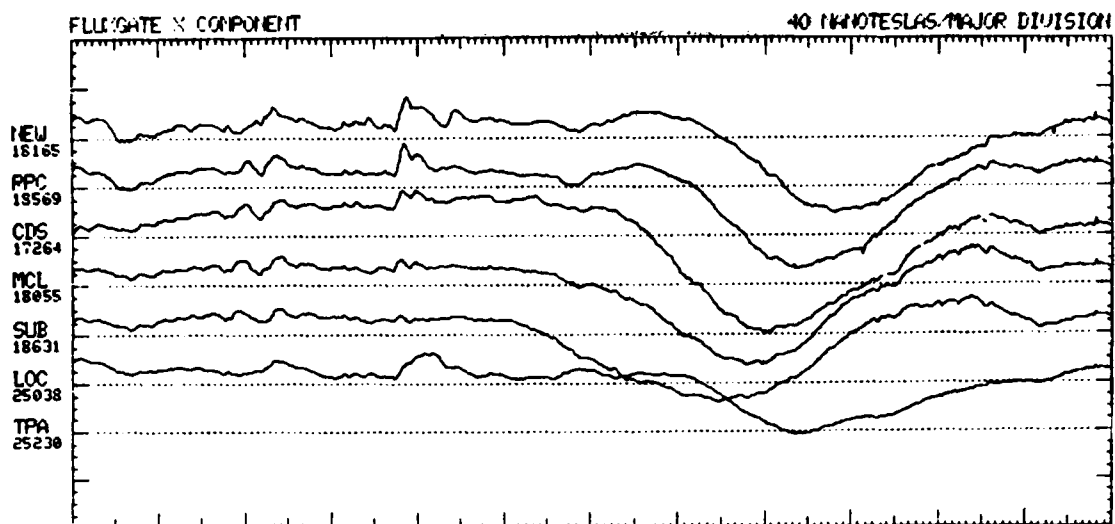


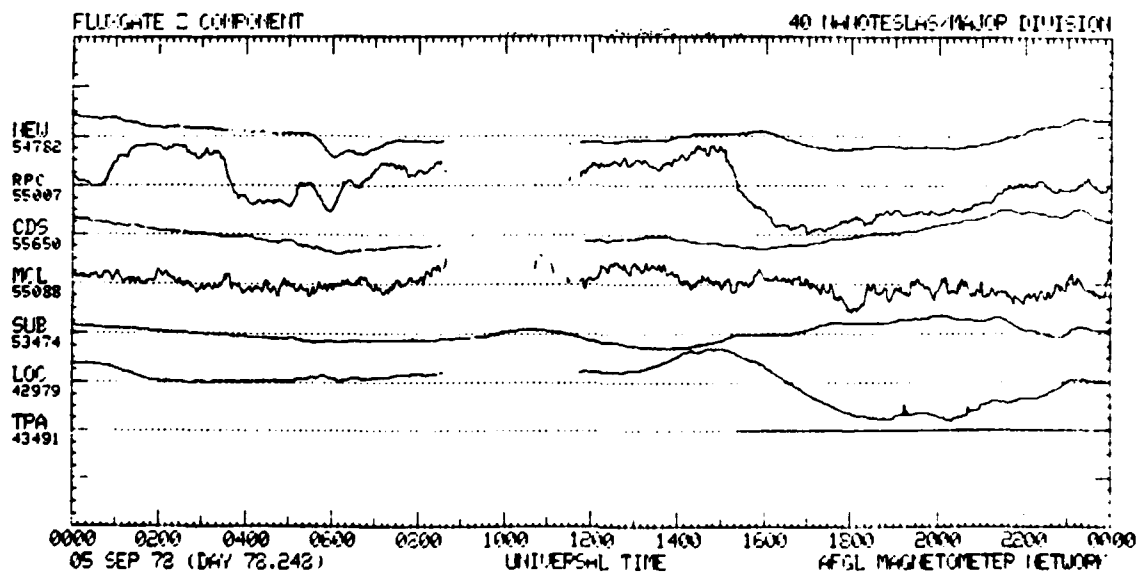
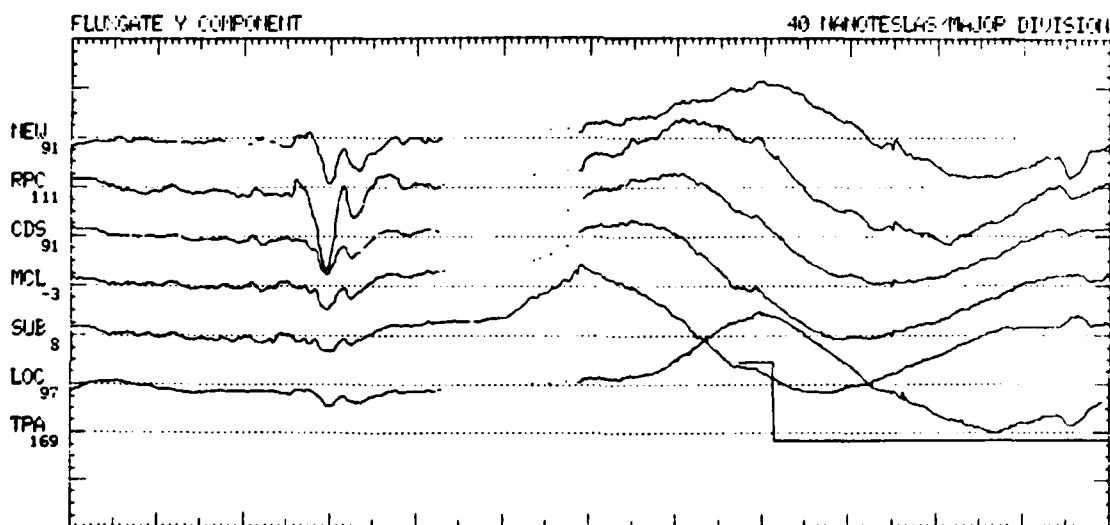
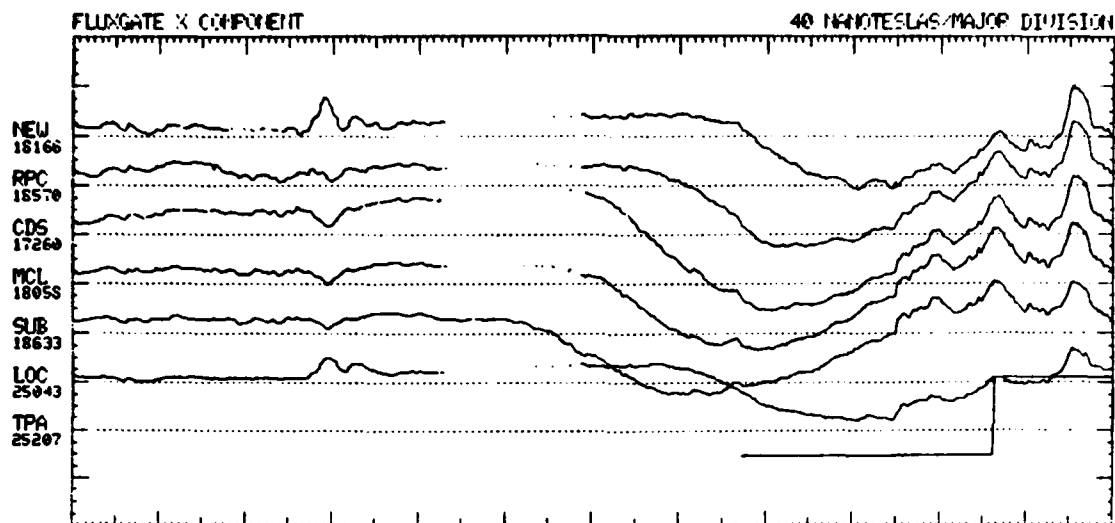


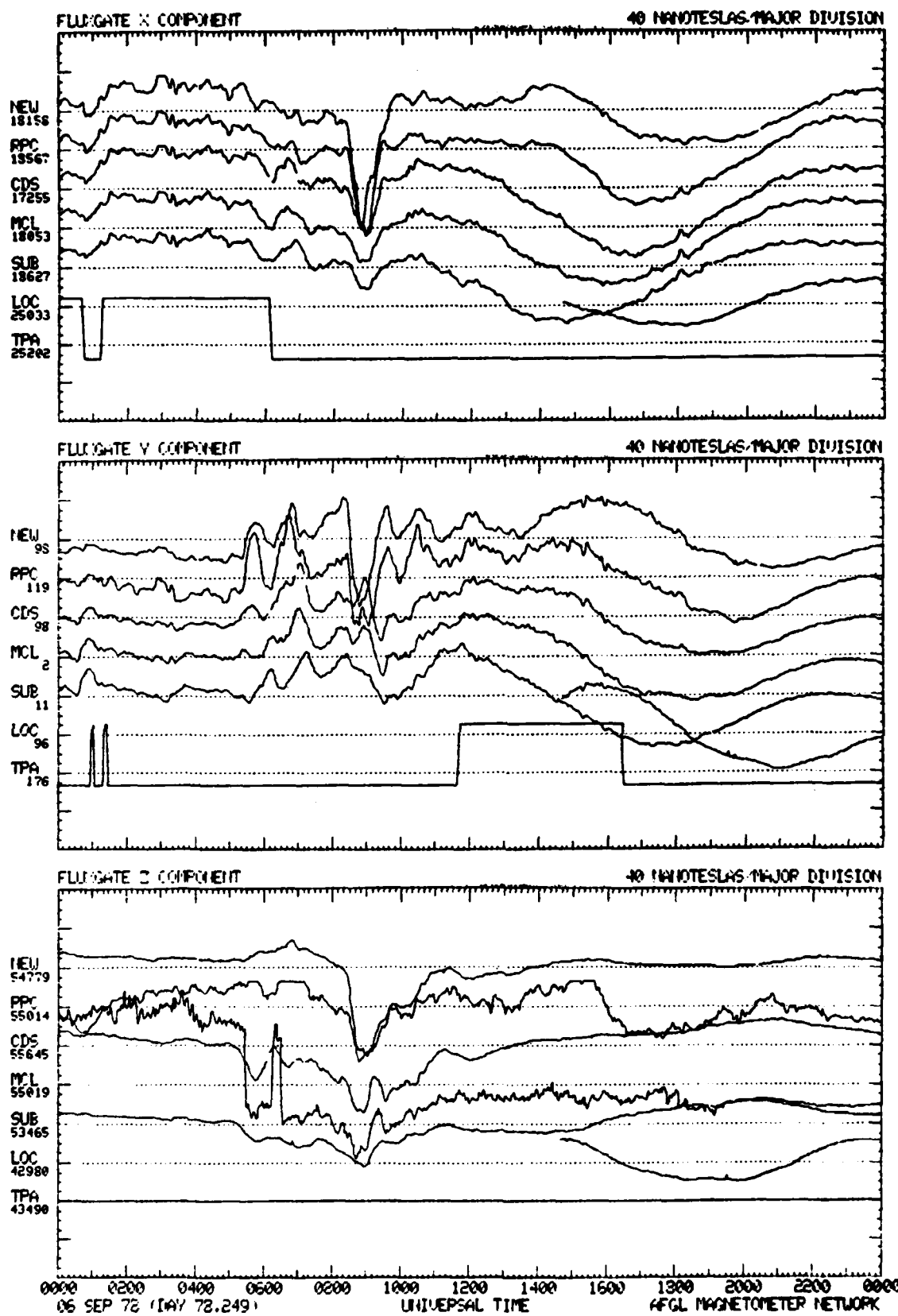


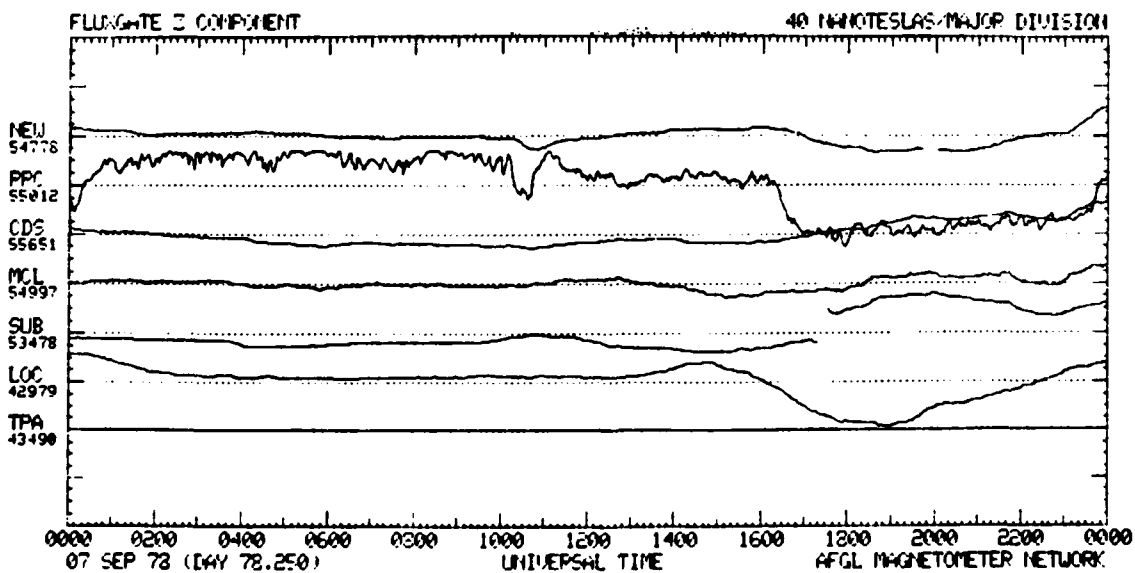
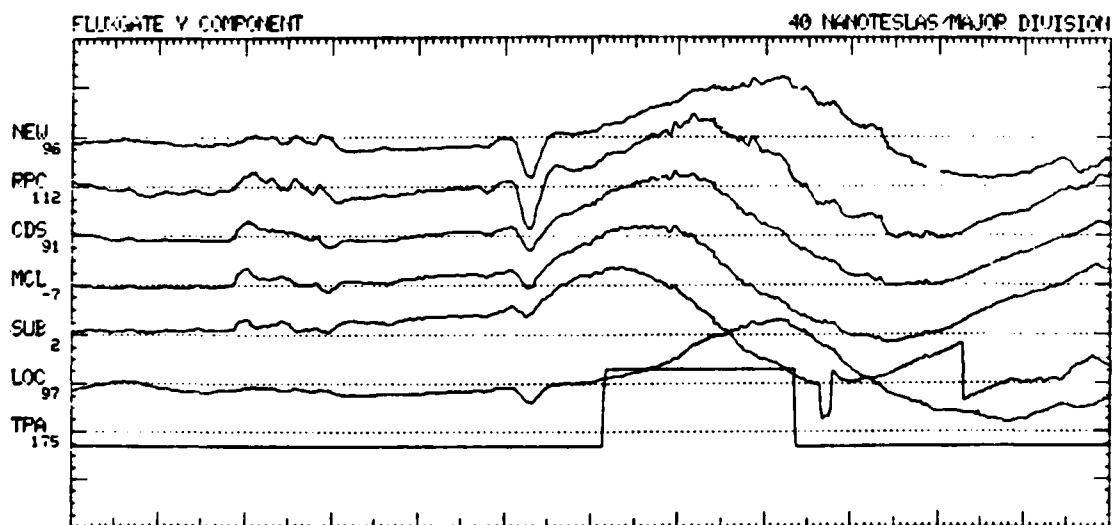
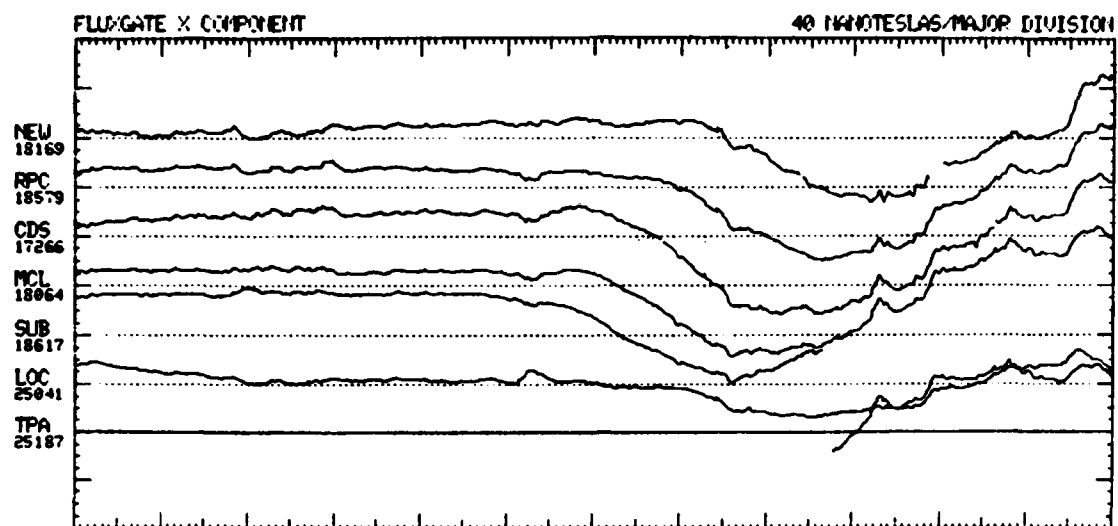
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02 SEP 72 (DAY 72.245) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

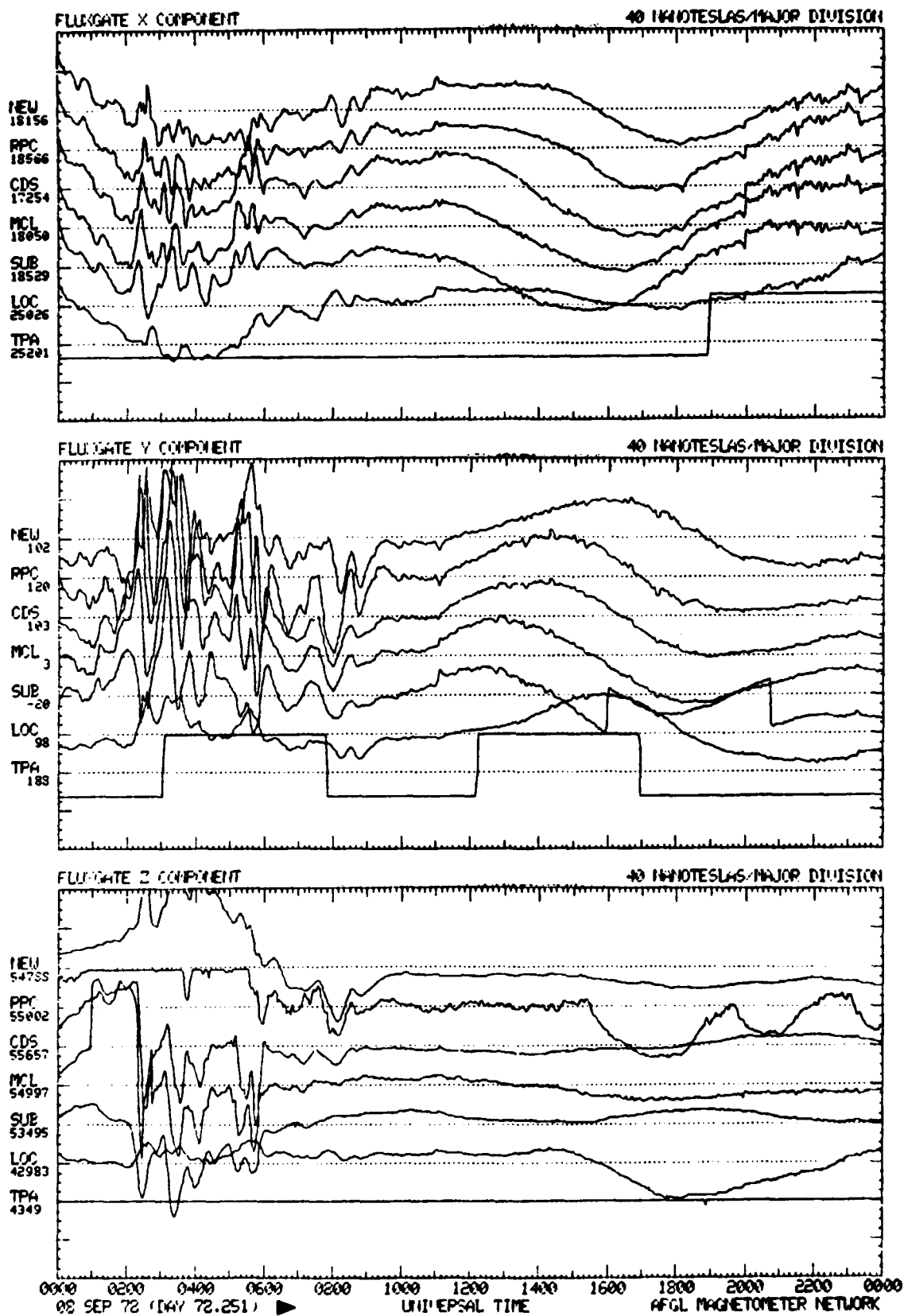


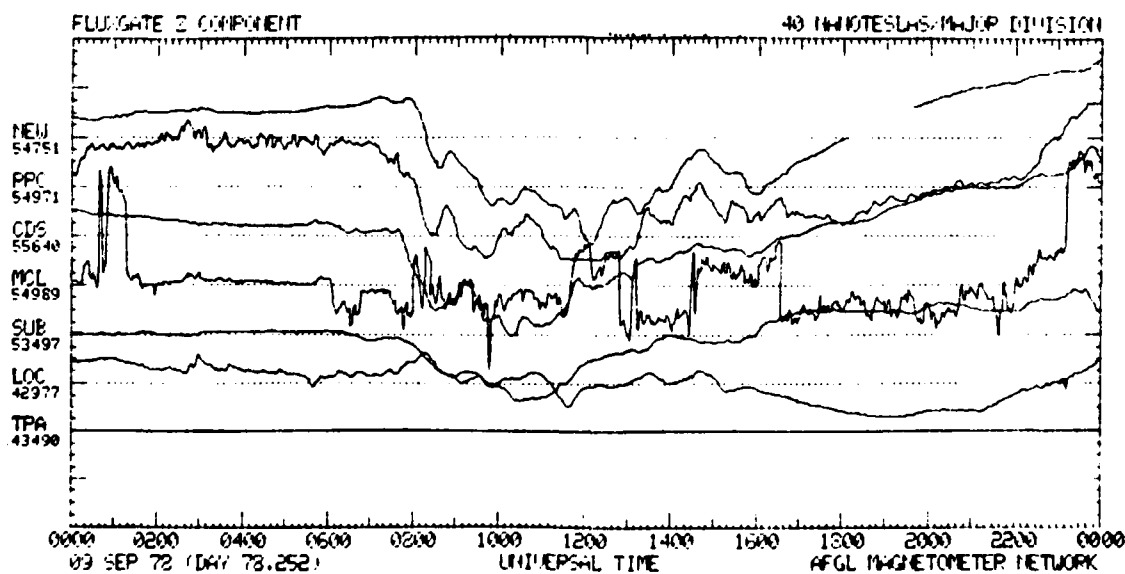
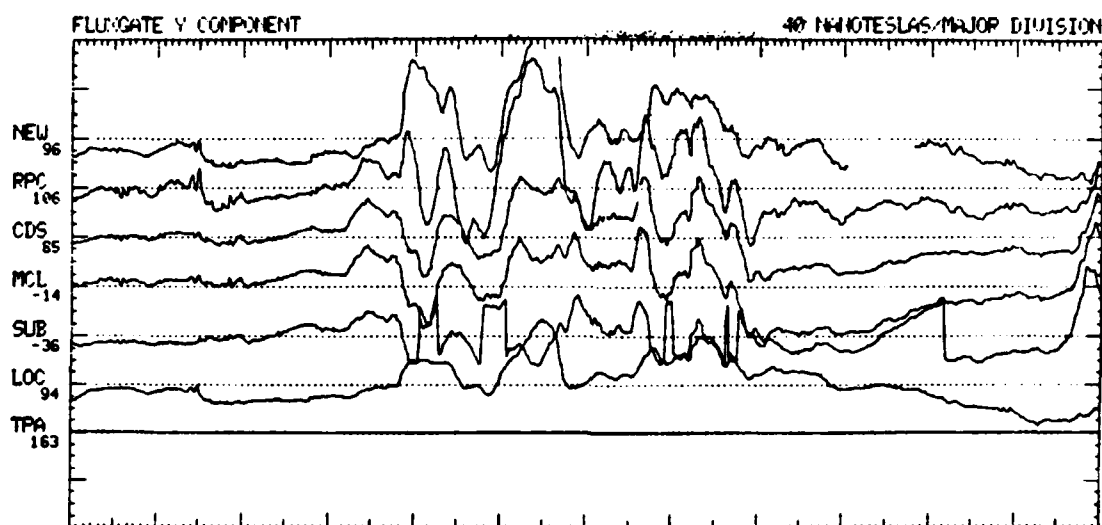
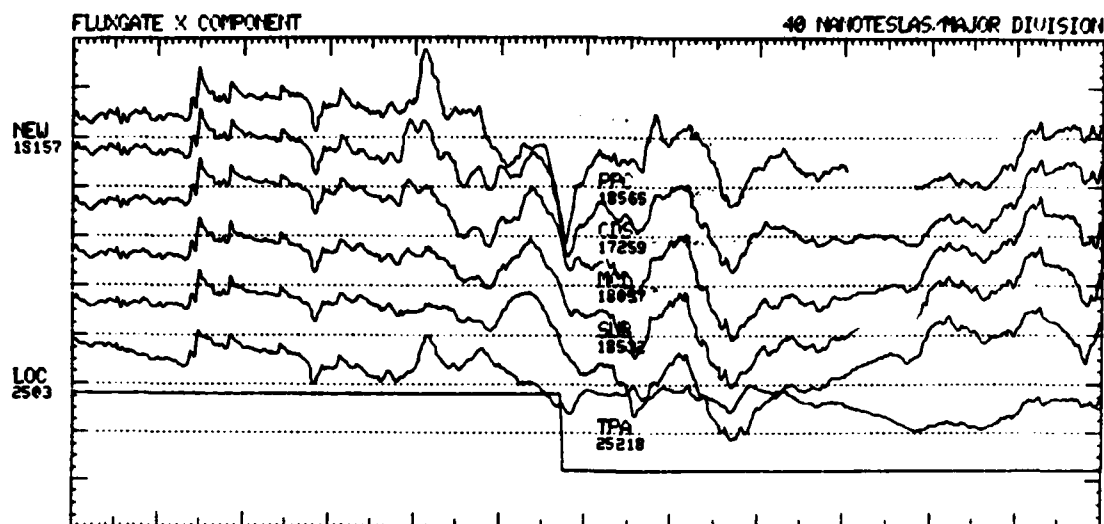


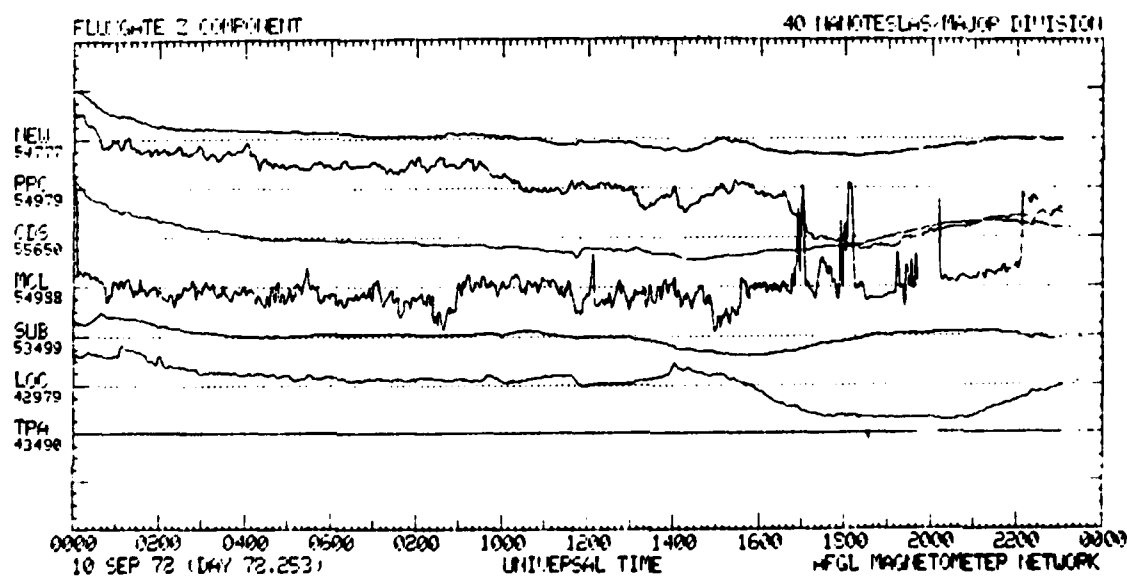
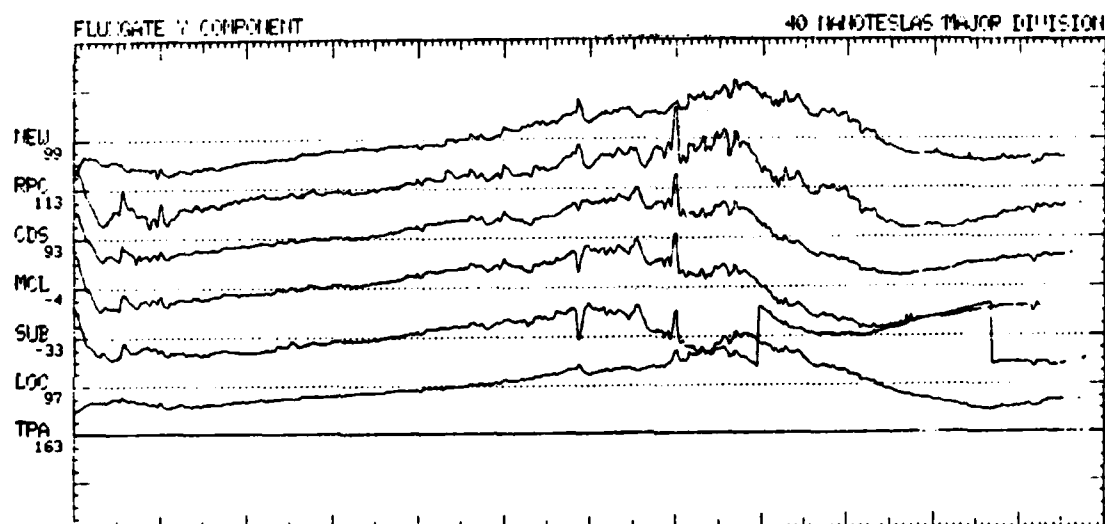
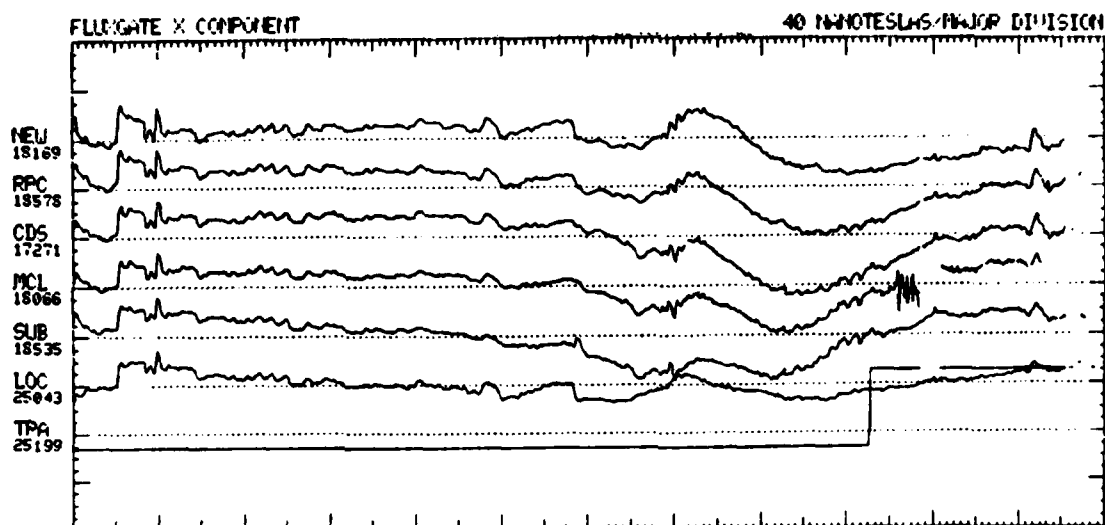




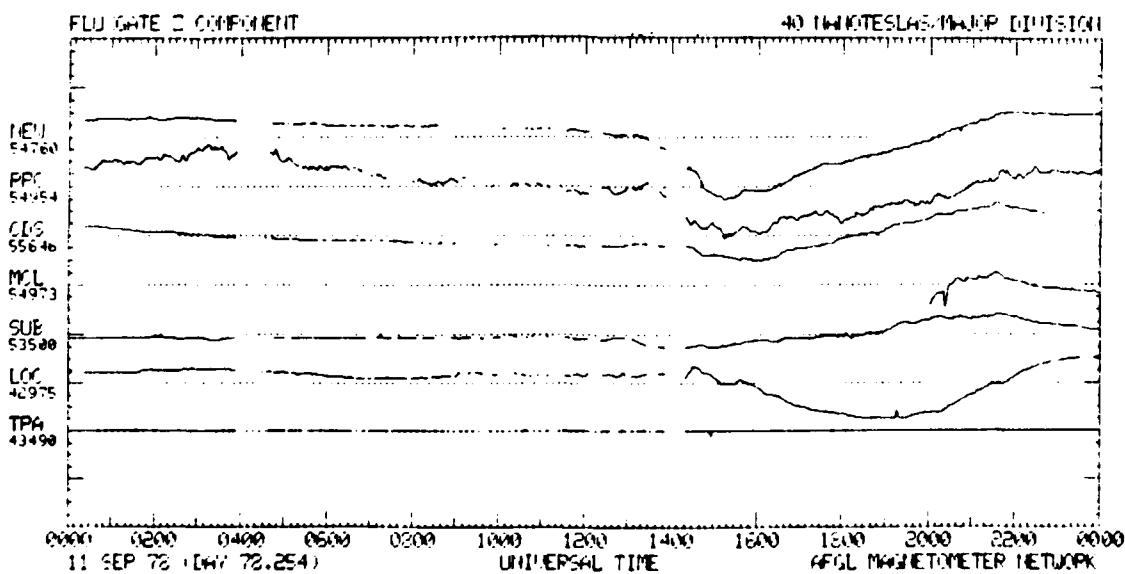
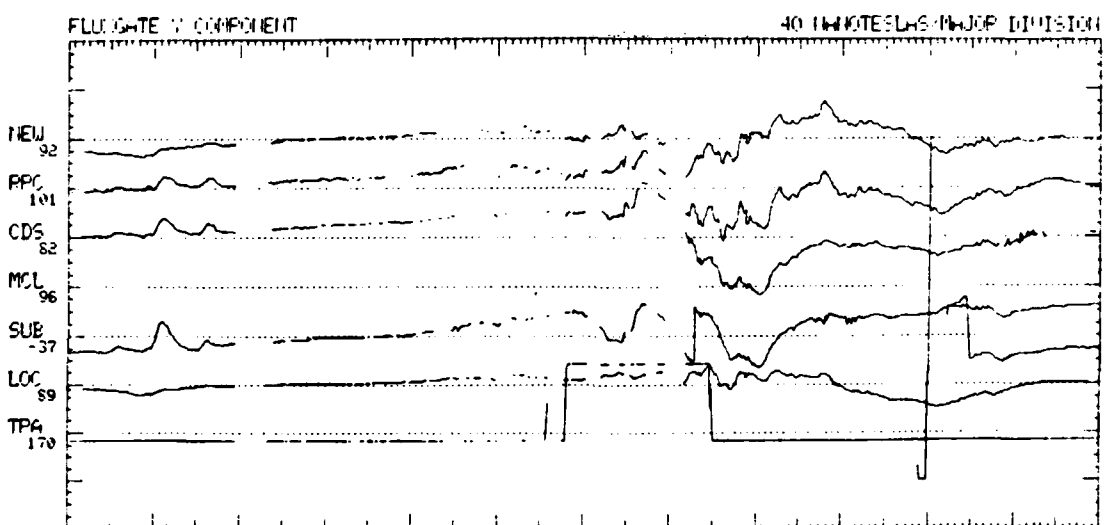
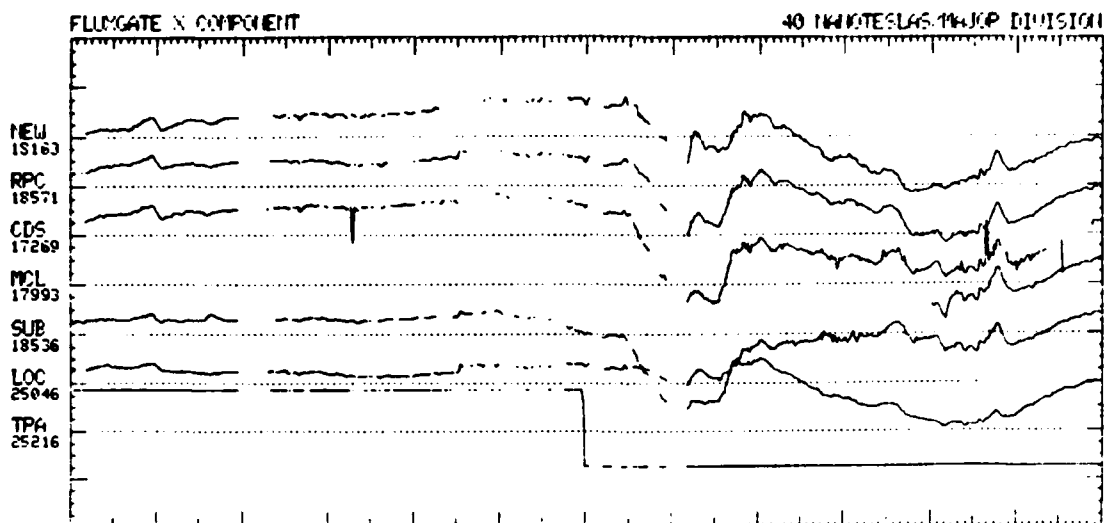


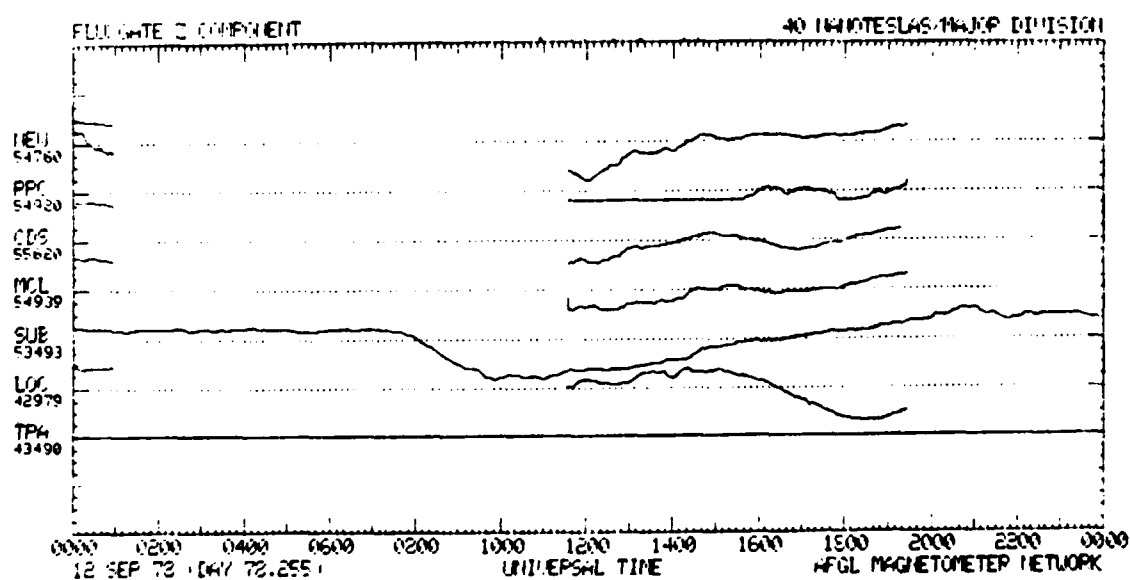
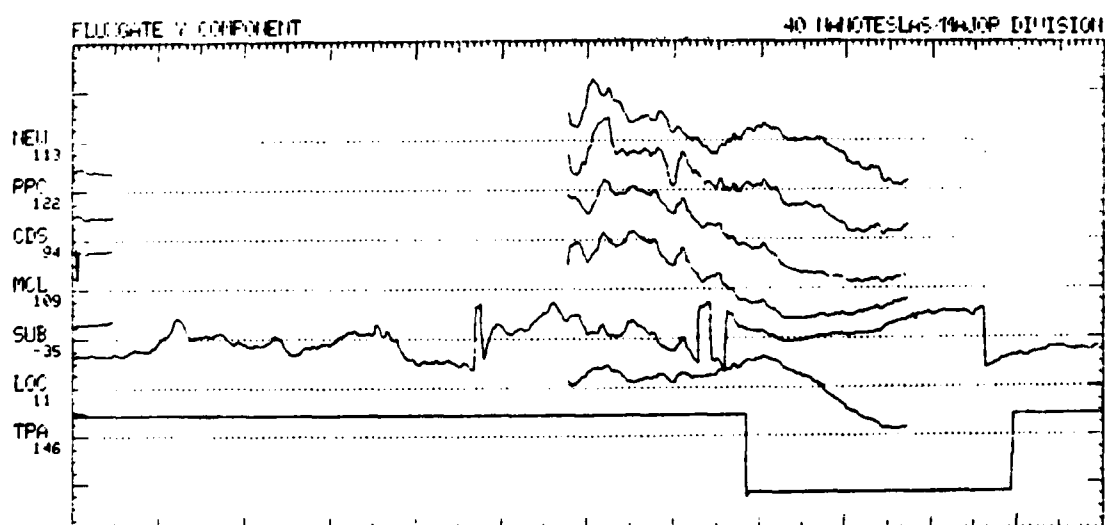
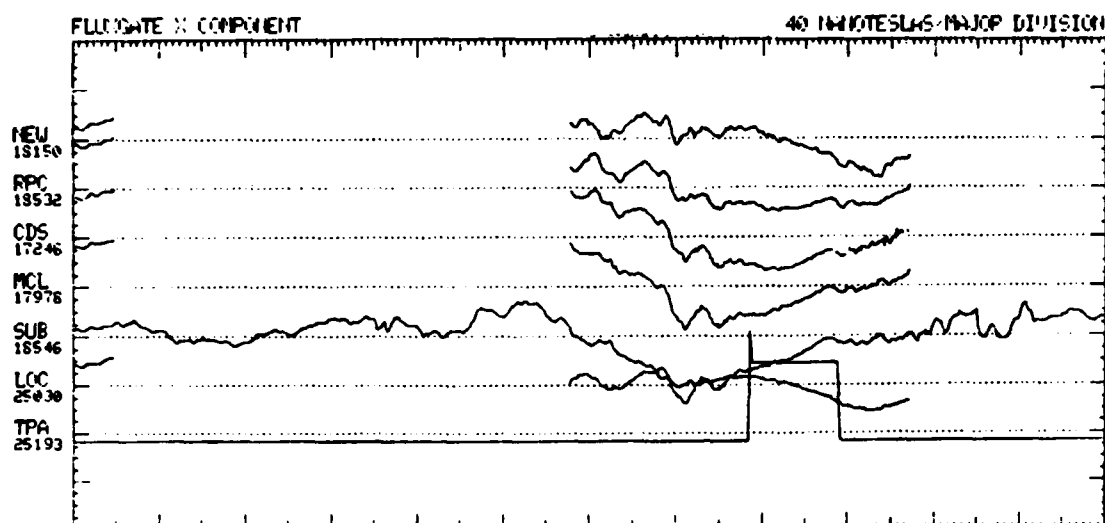


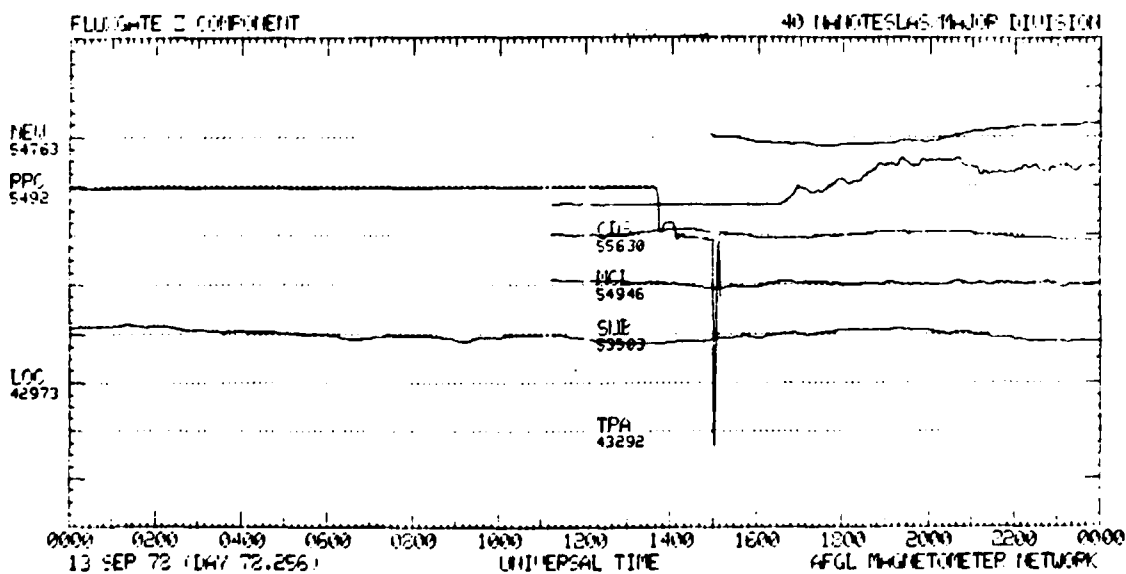
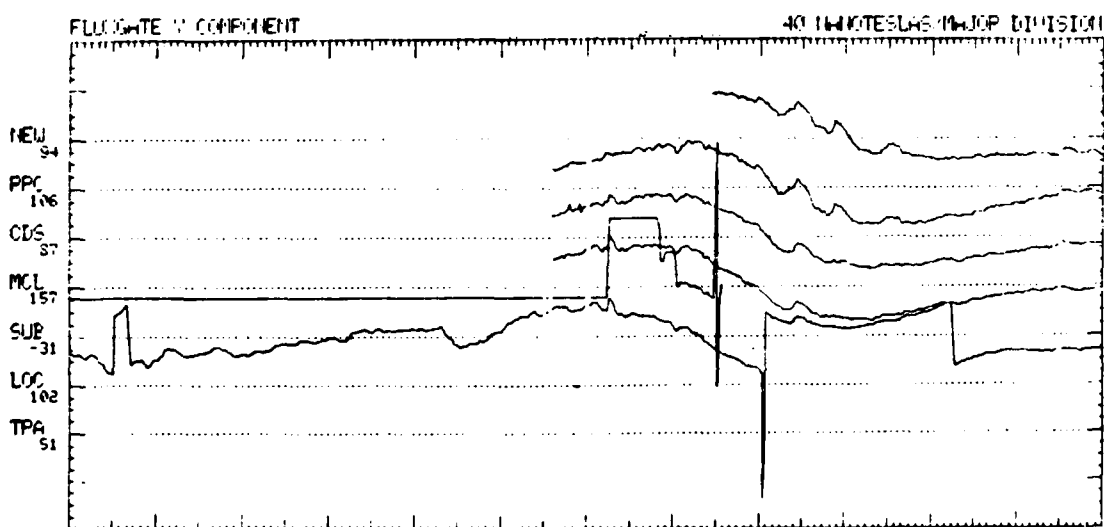
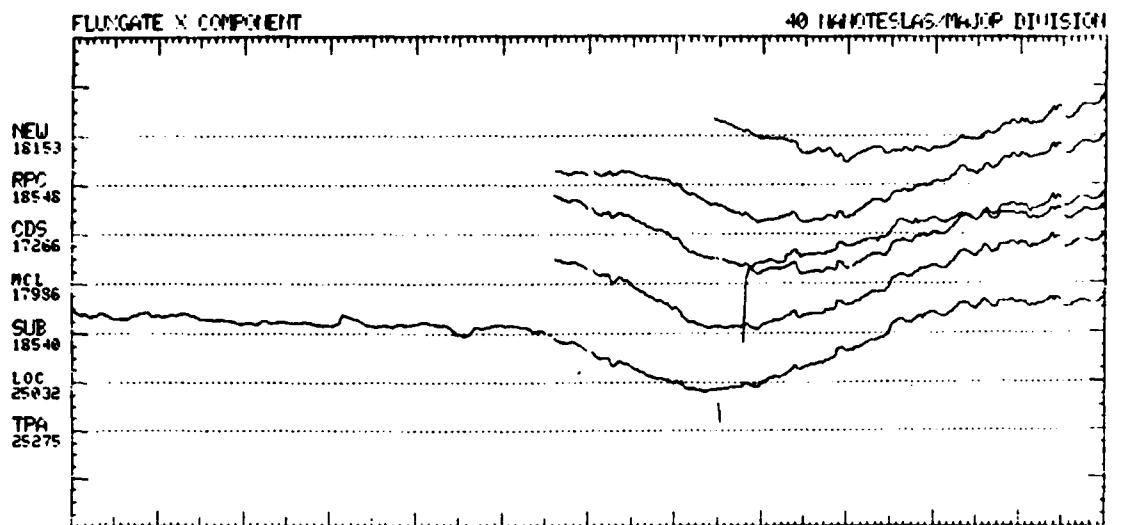


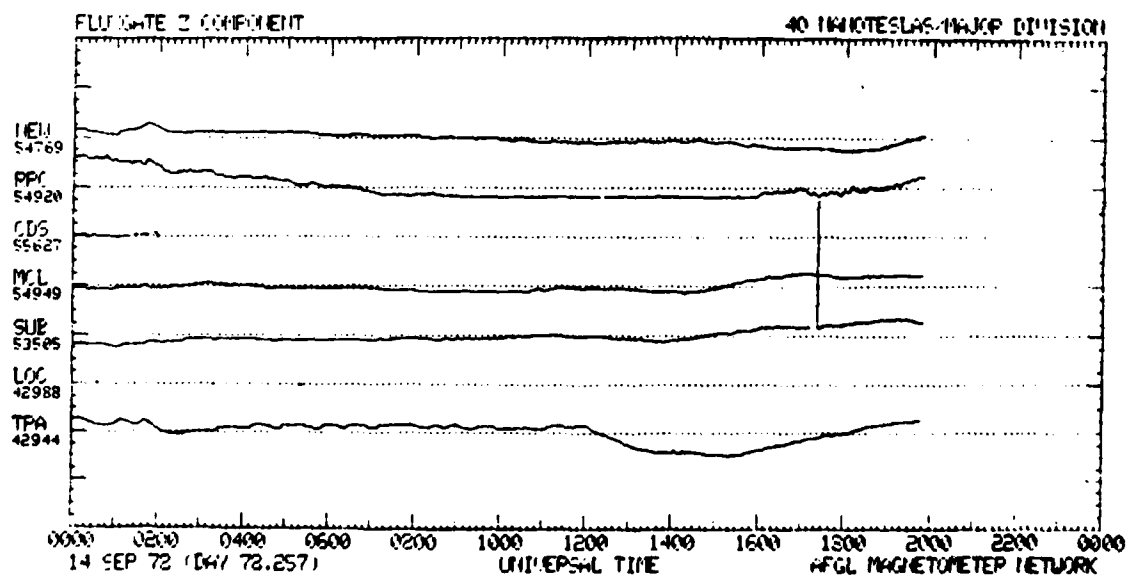
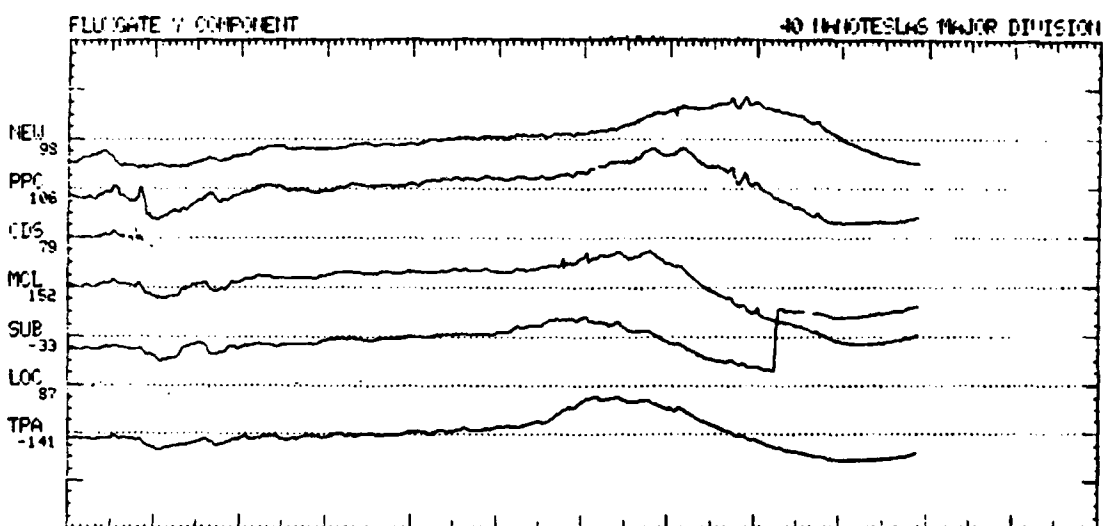
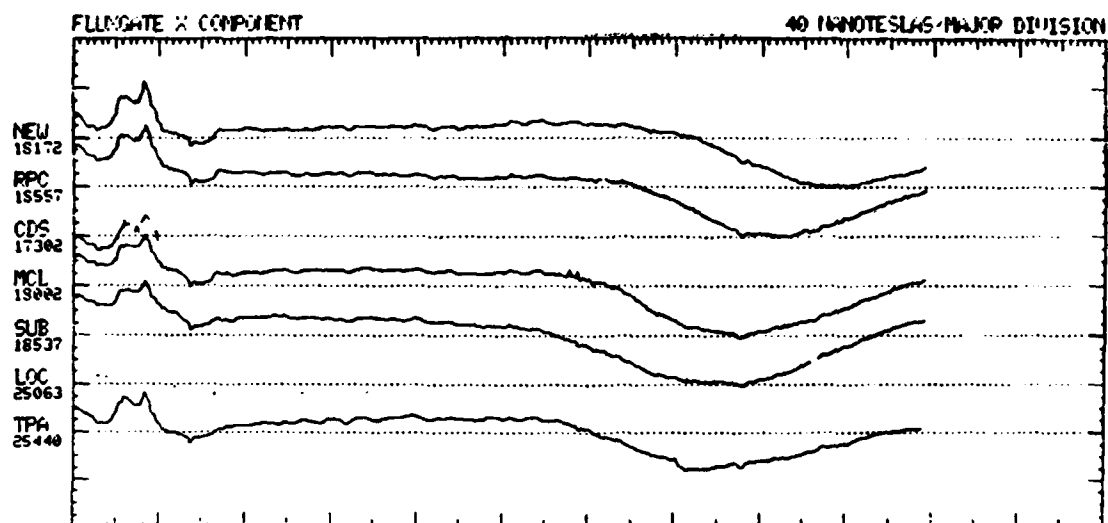


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10 SEP 72 (DAY 72.253) UNIVERSAL TIME HFGL MAGNETOMETER NETWORK





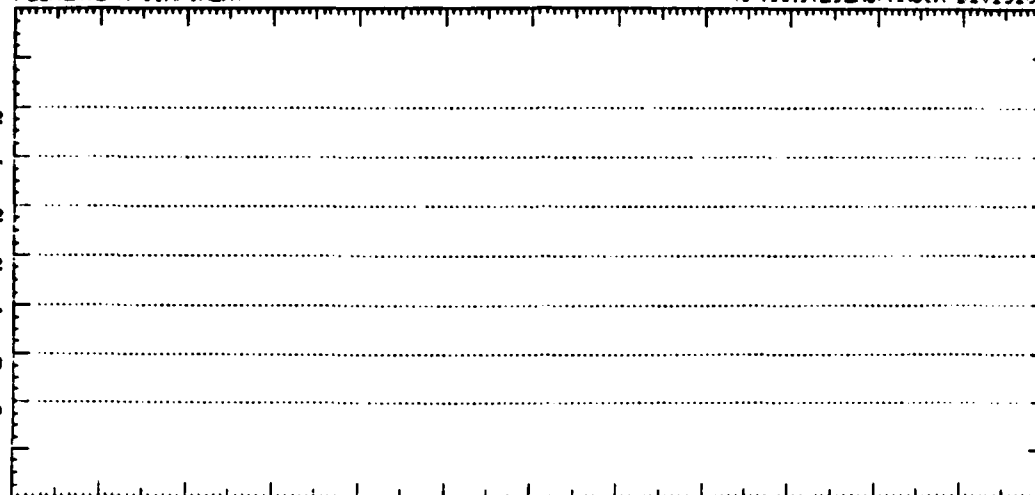




FLUNGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

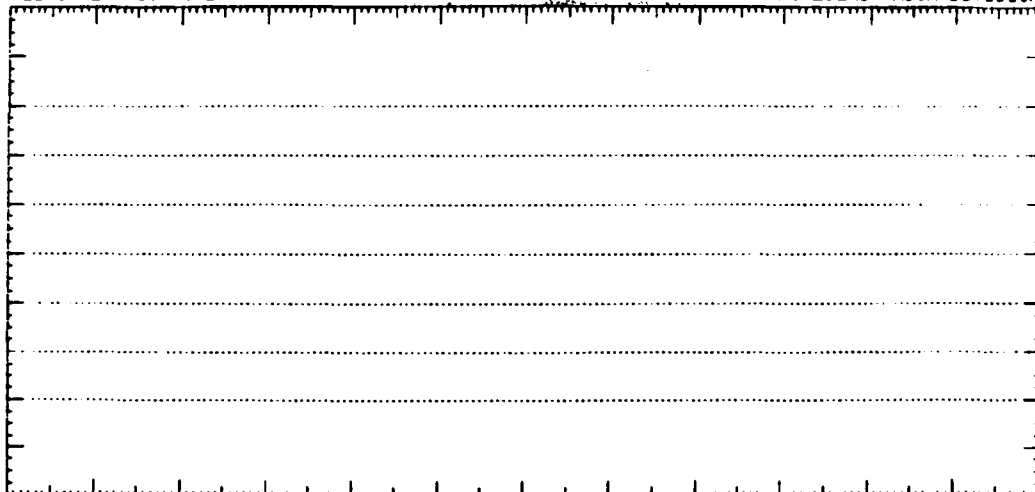
NEW
13172
RPC
13557
CDS
17302
MCL
18002
SUB
18537
LOC
25063
TPA
25440



FLUNGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

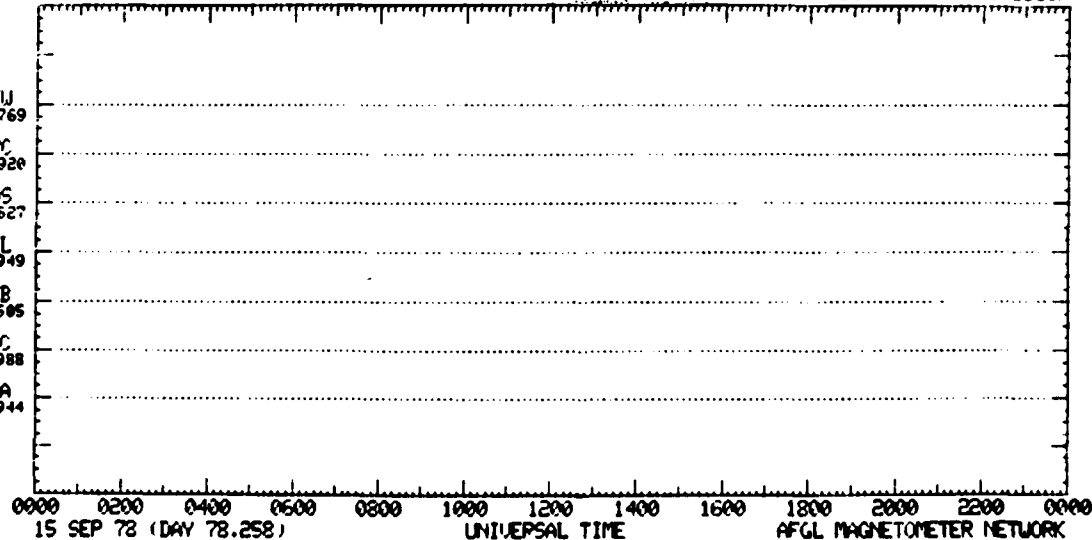
NEW
98
RPC
106
CDS
79
MCL
152
SUB
-33
LOC
87
TPA
-141



FLUNGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54769
RPC
54920
CDS
55627
MCL
54949
SUB
53505
LOC
42988
TPA
42944



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
15 SEP 78 (DAY 78.258) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18172
RPC
18557
CDS
17382
MCL
18092
SUB
18537
LOC
25063
TPA
25448

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

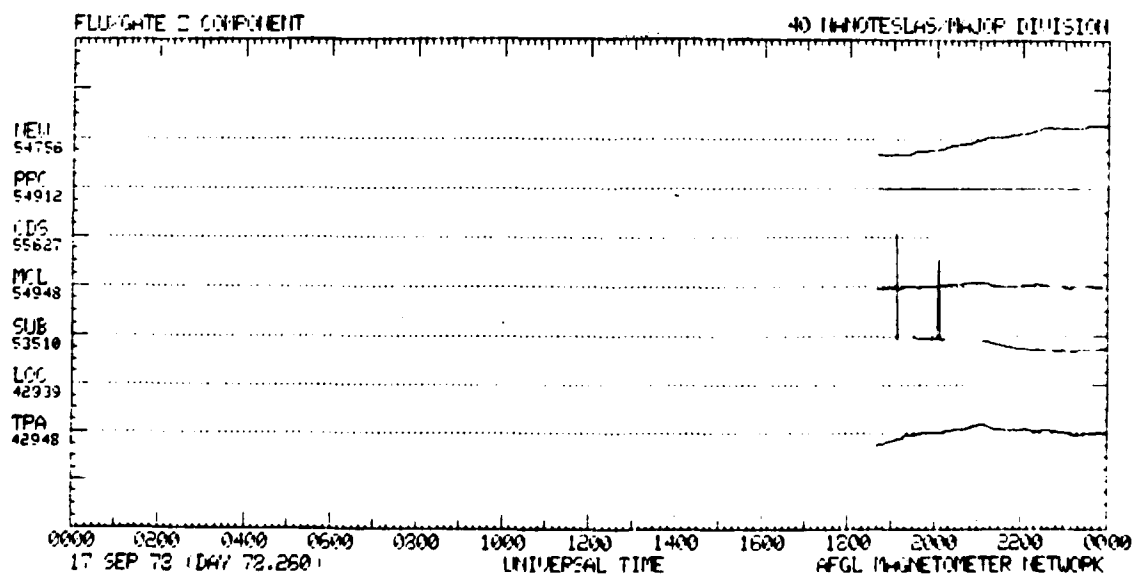
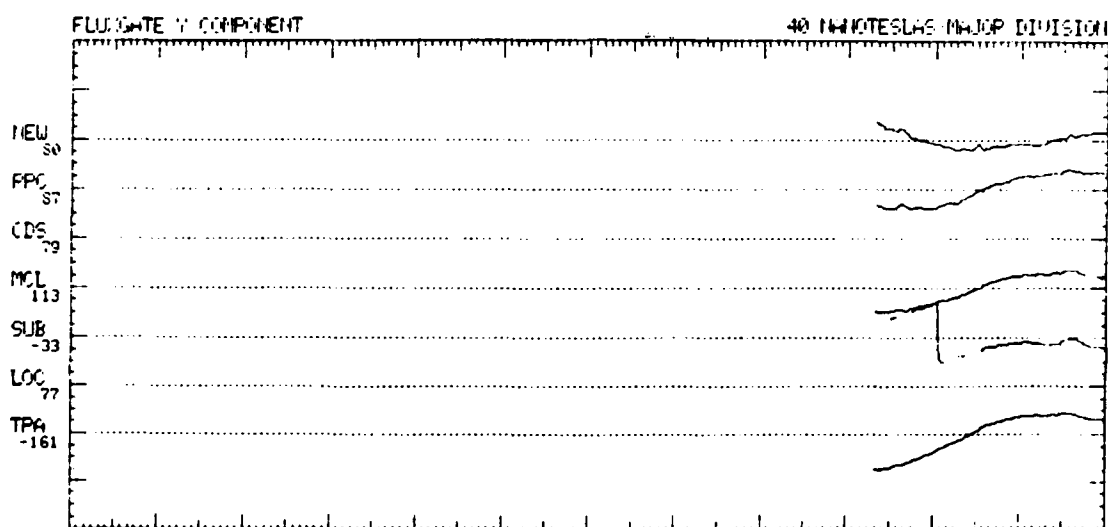
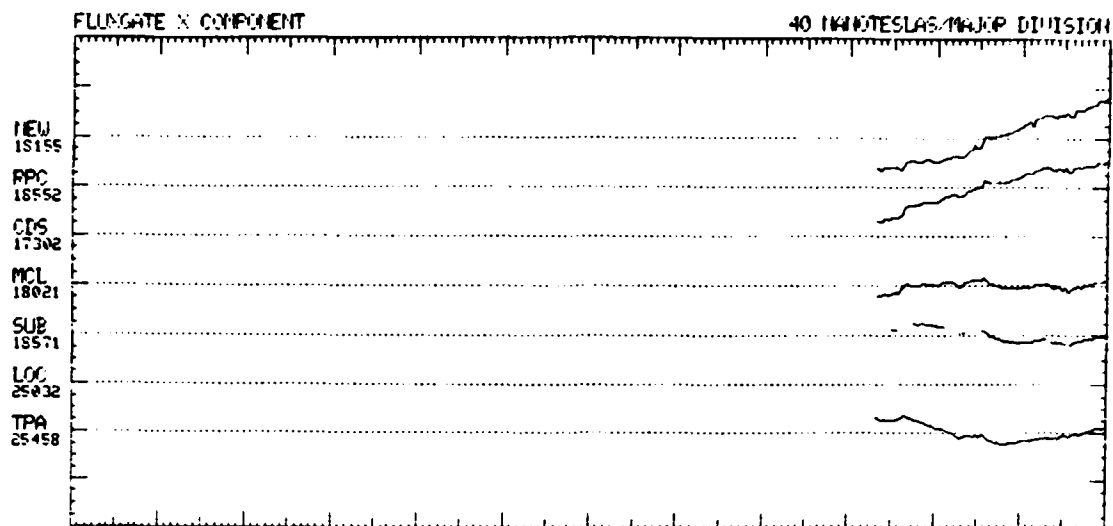
NEW
98
RPC
126
CDS
79
MCL
152
SUB
-33
LOC
87
TPA
-141

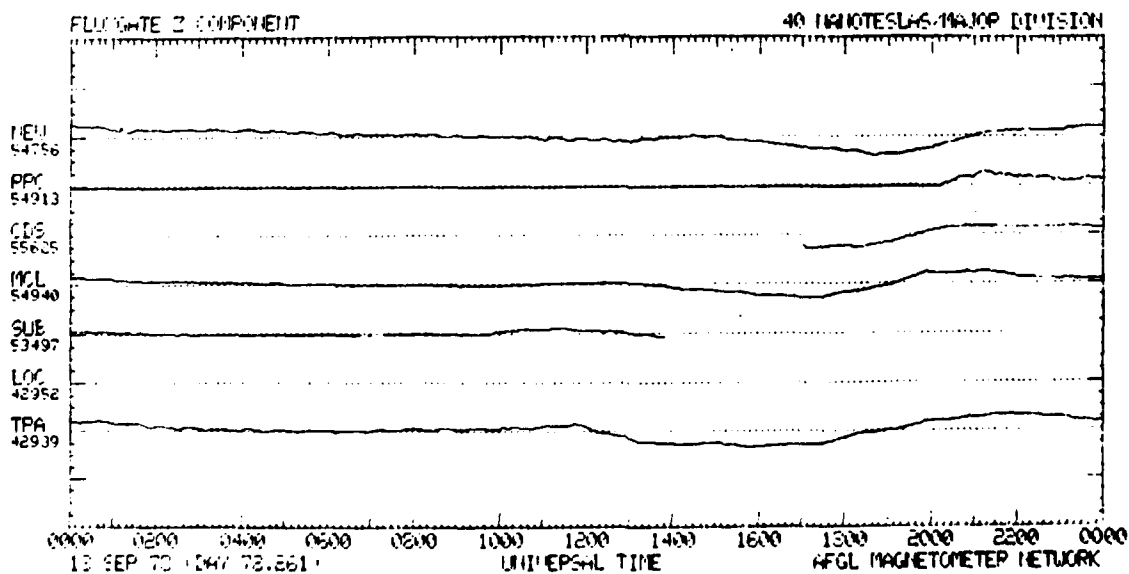
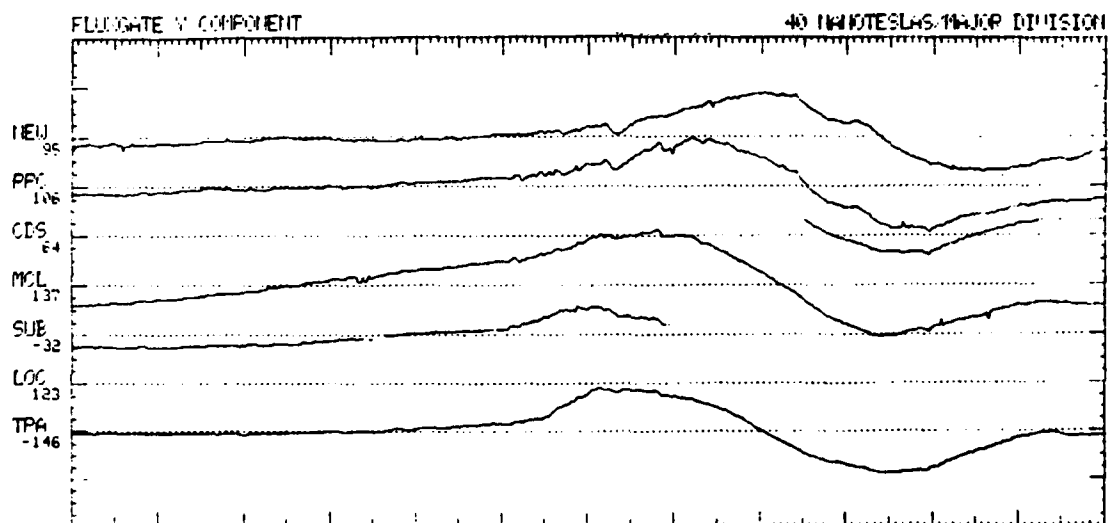
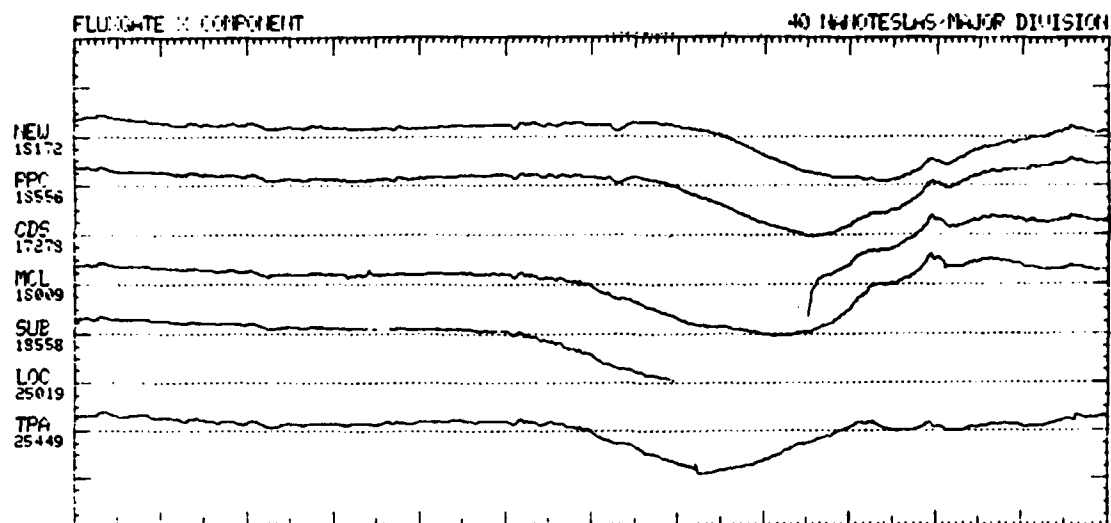
FLUXGATE Z COMPONENT

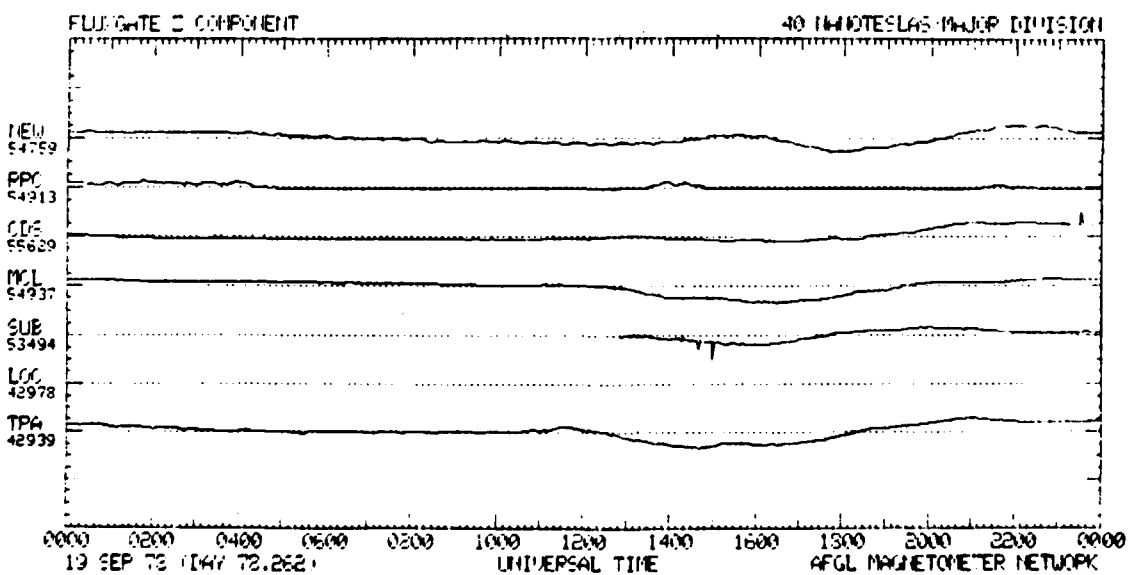
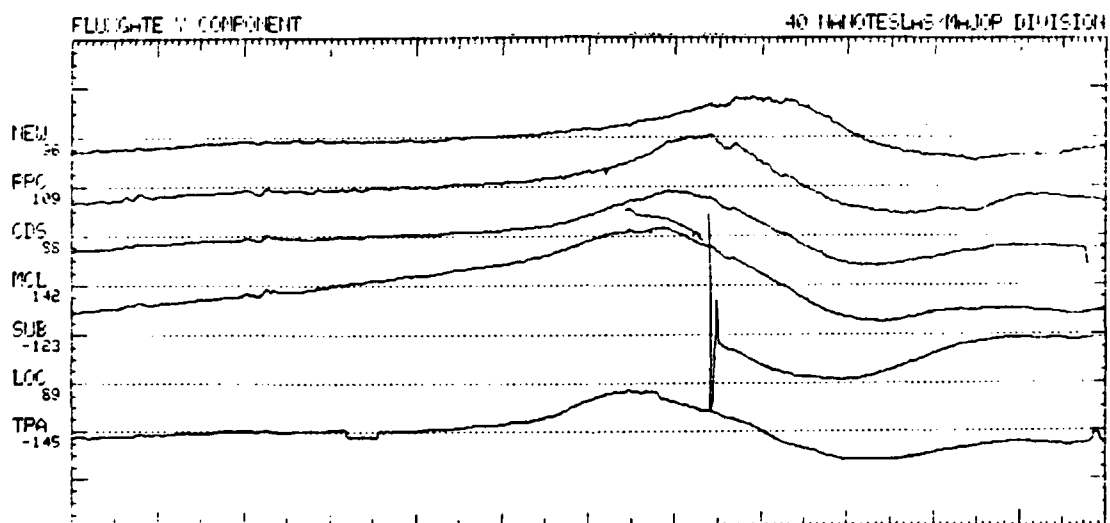
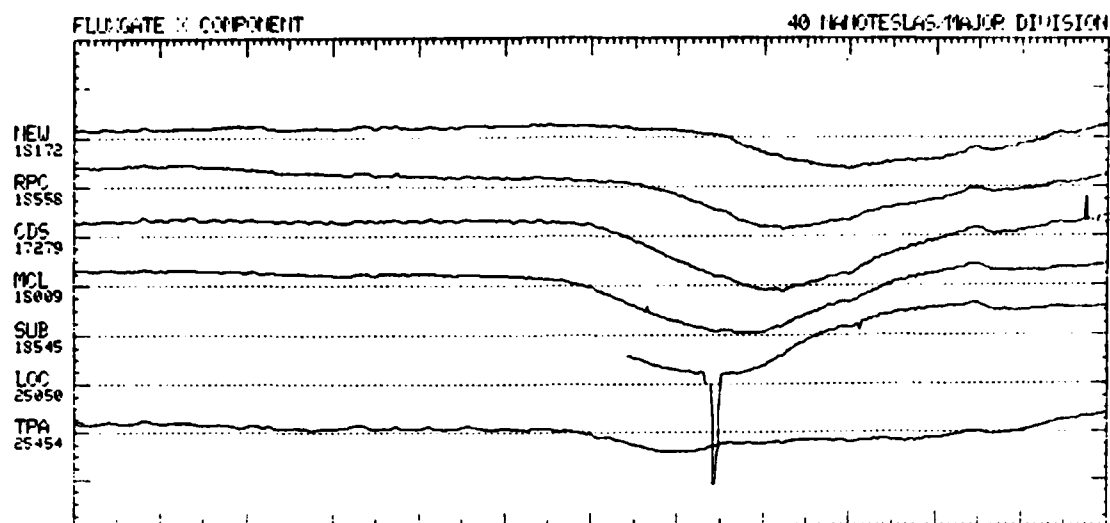
40 NANOTESLAS/MAJOR DIVISION

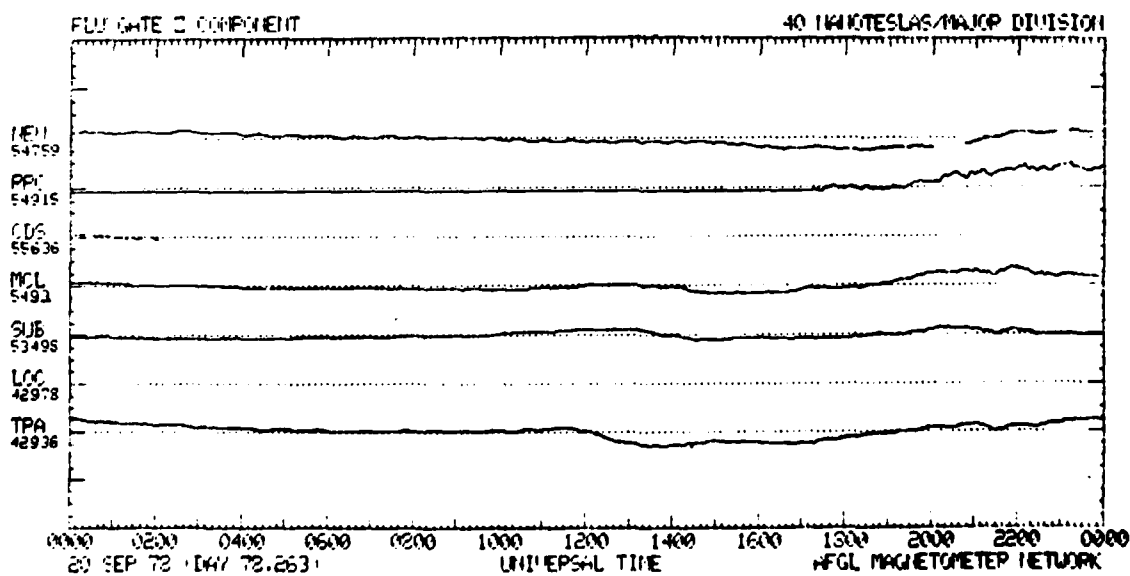
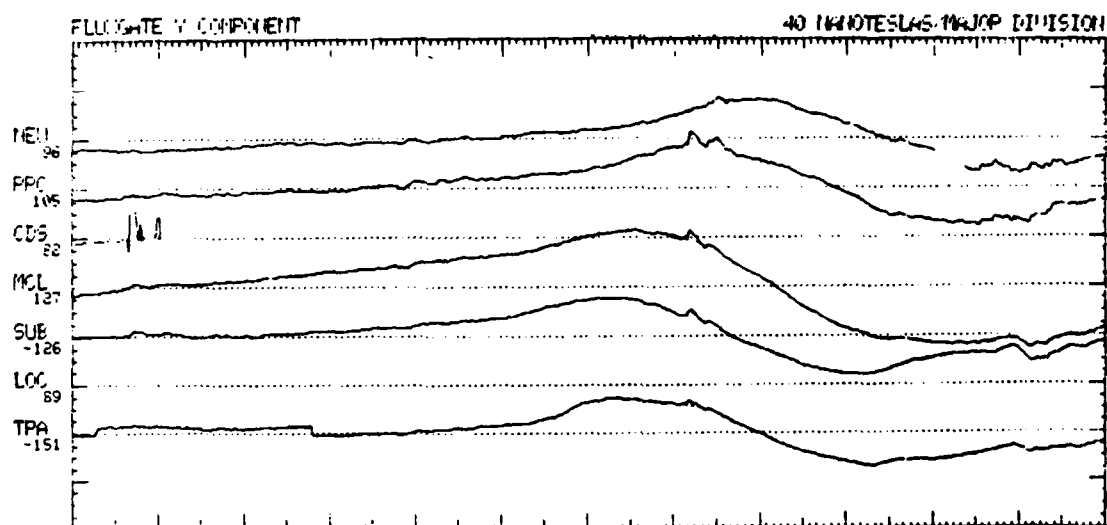
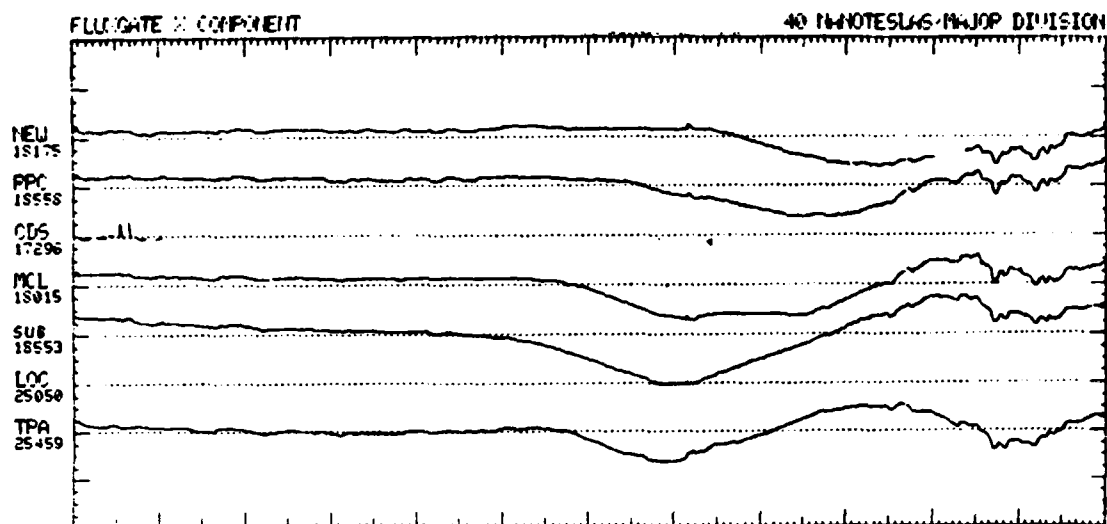
NEW
54769
RPC
54920
CDS
55627
MCL
54949
SUB
53505
LOC
42988
TPA
42944

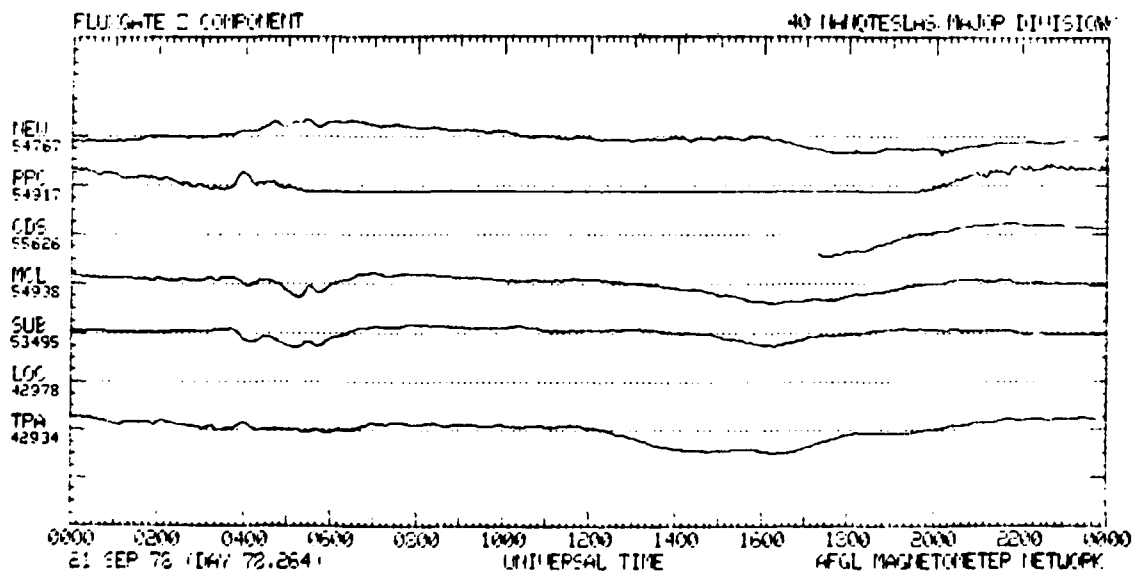
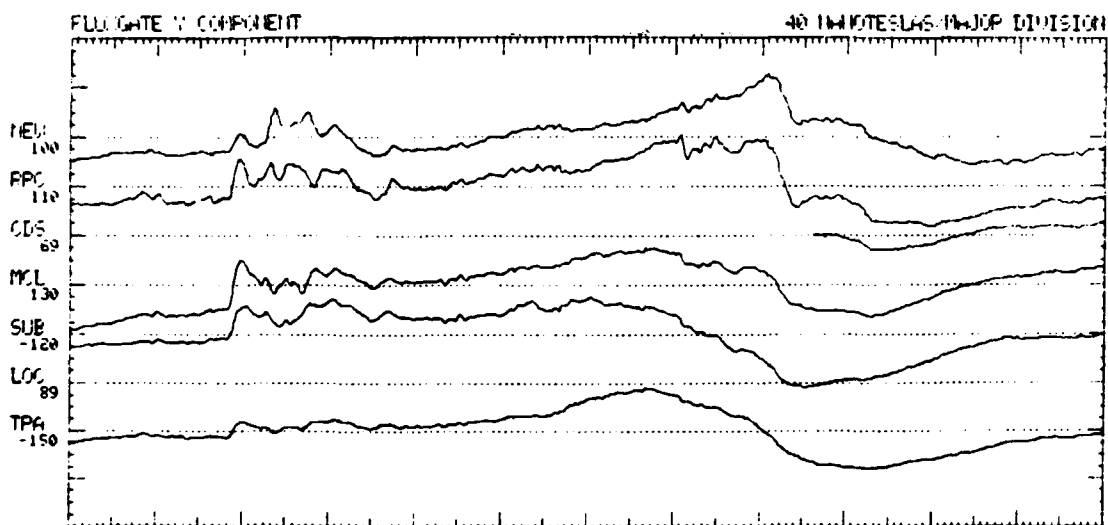
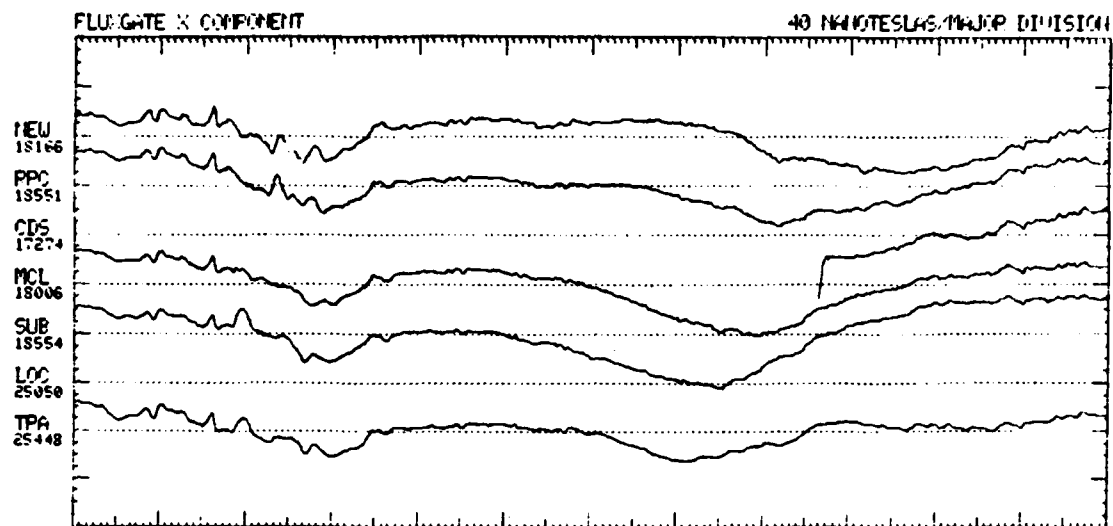
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16 SEP 78 (DAY 78.259) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

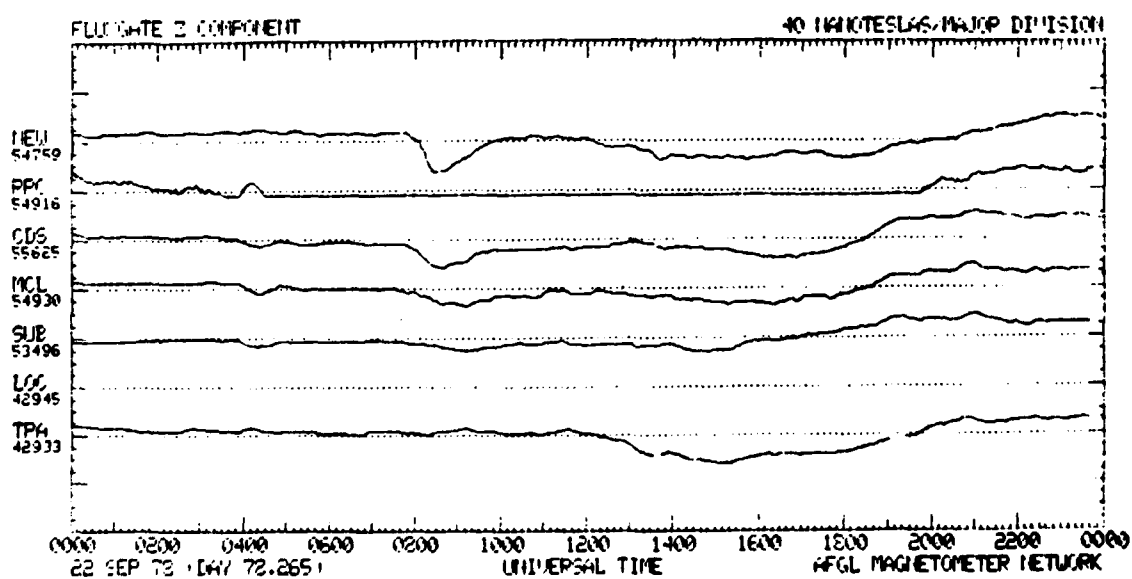
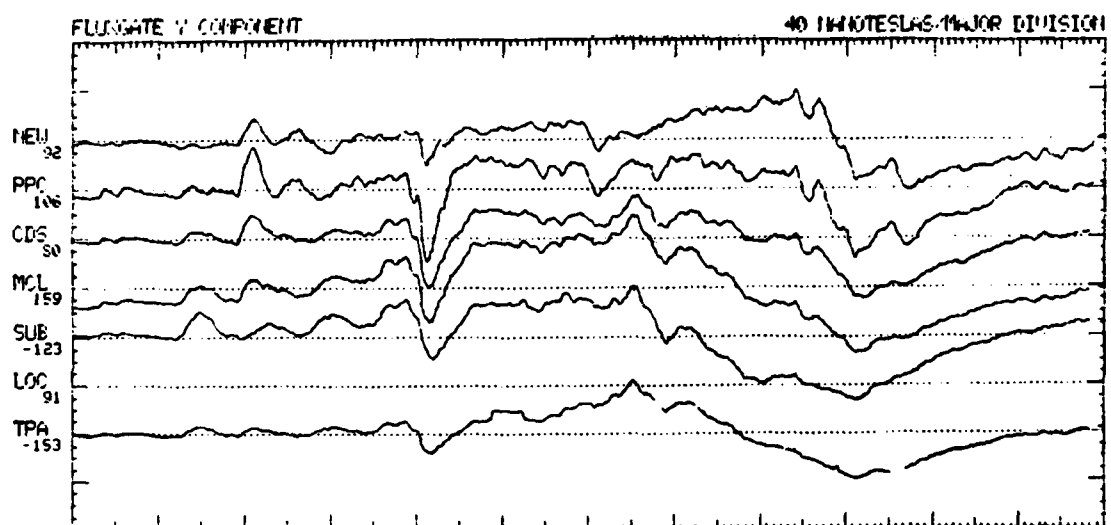
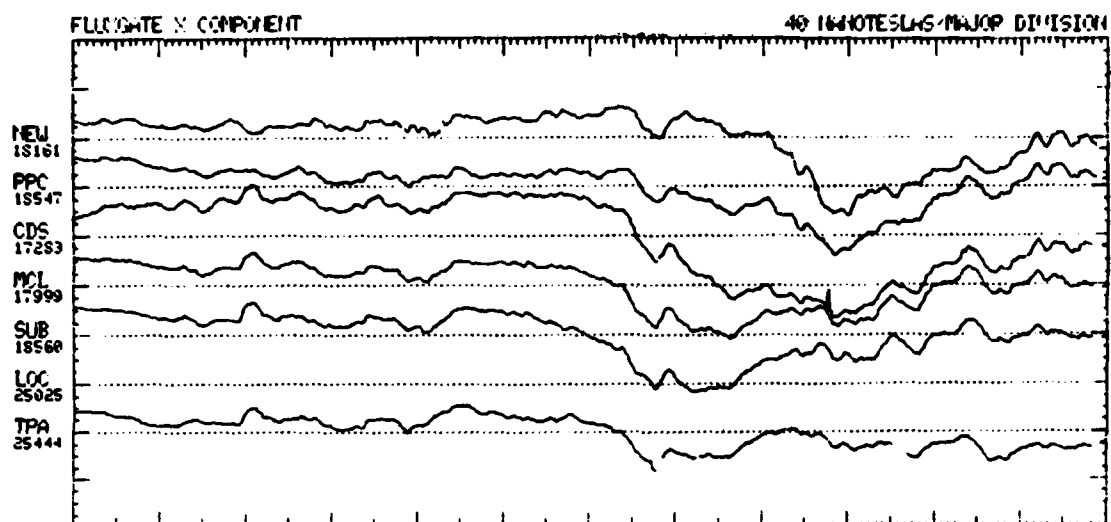


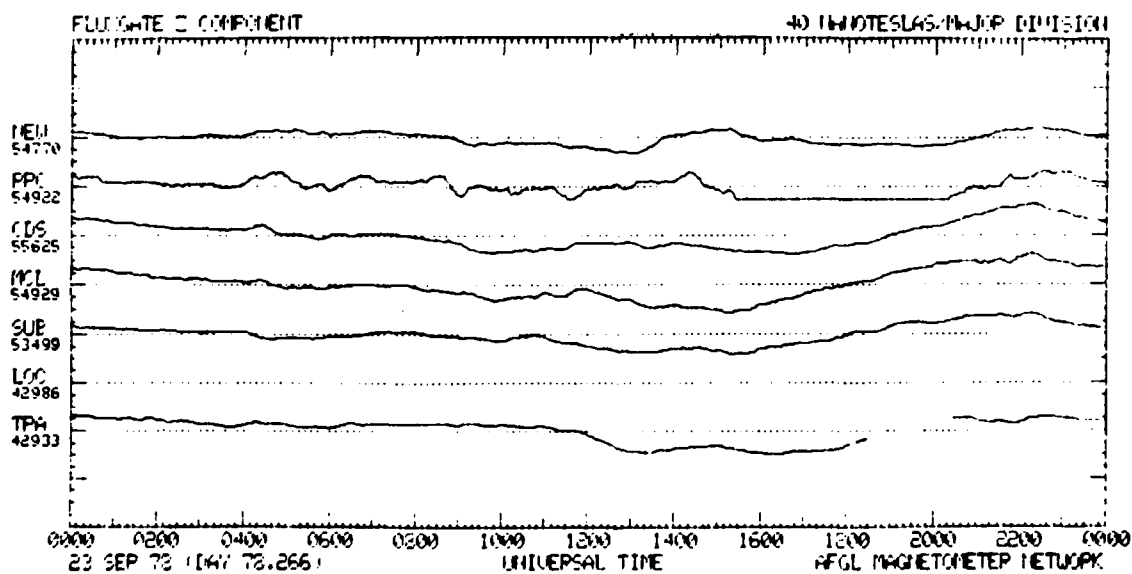
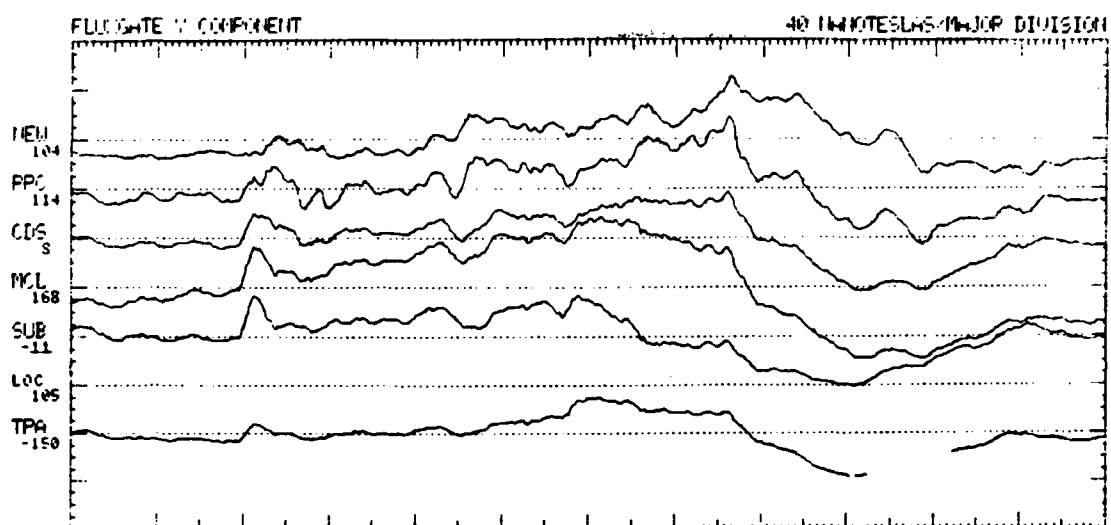
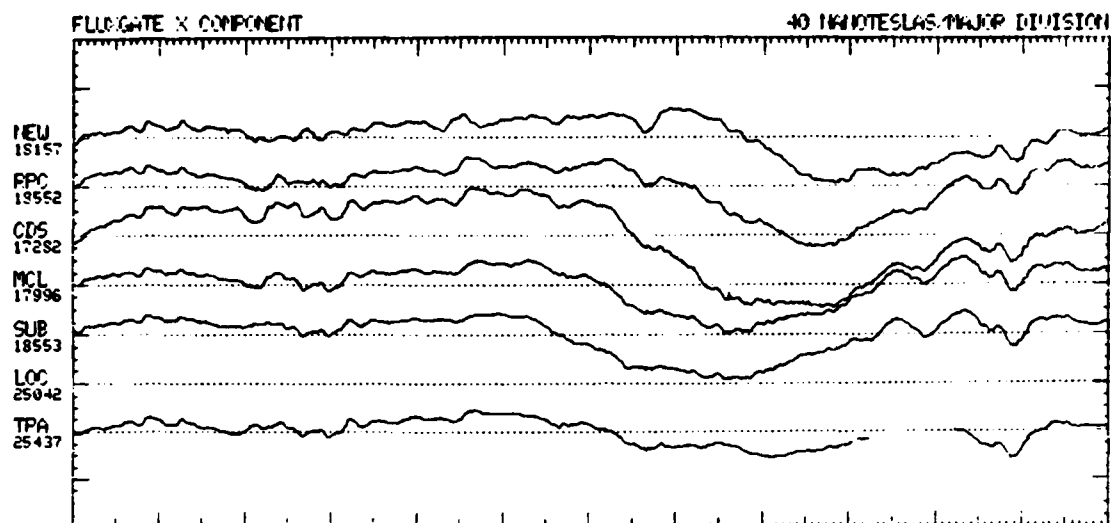


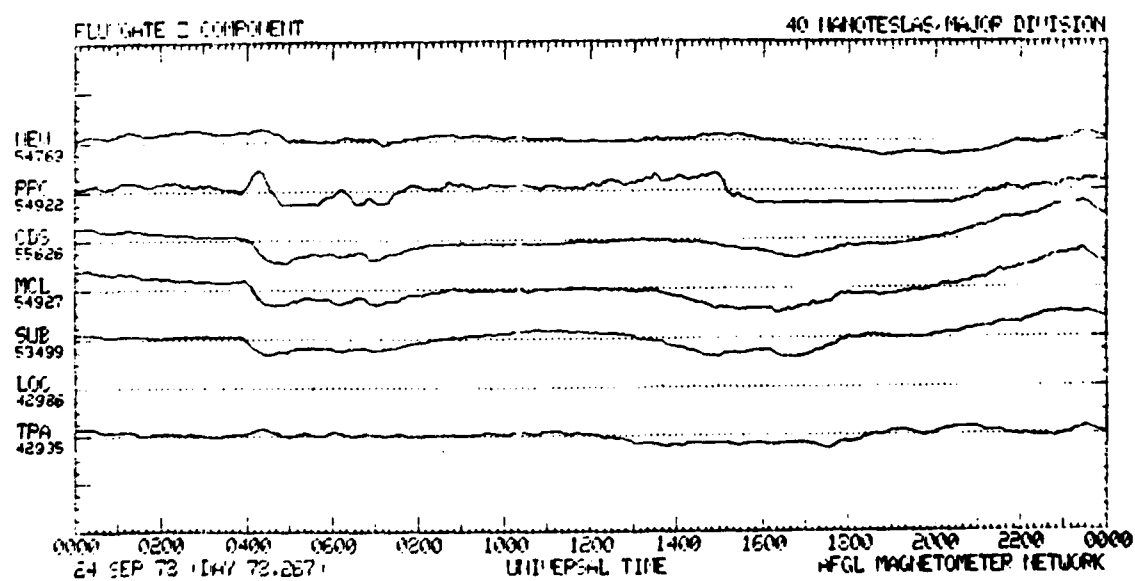
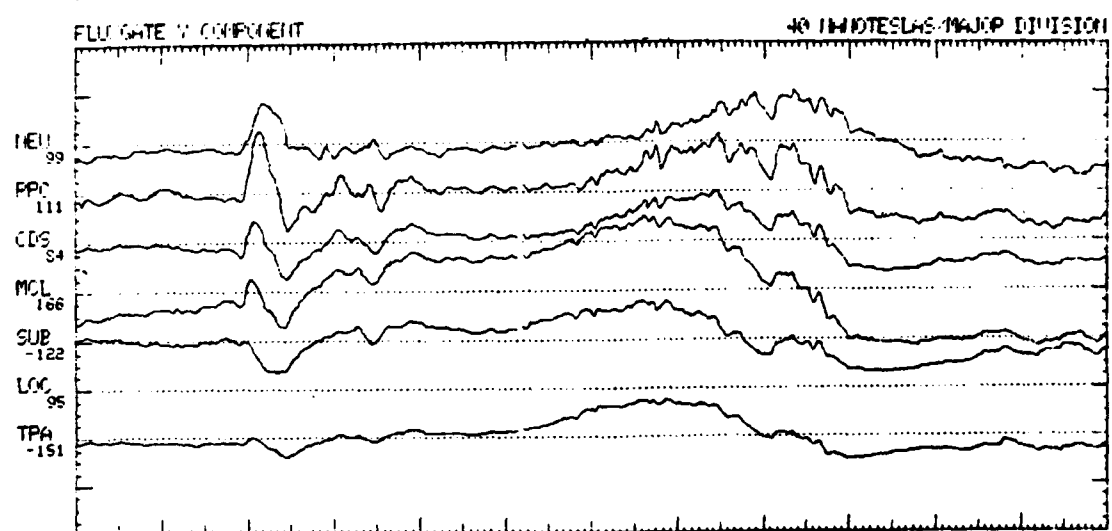
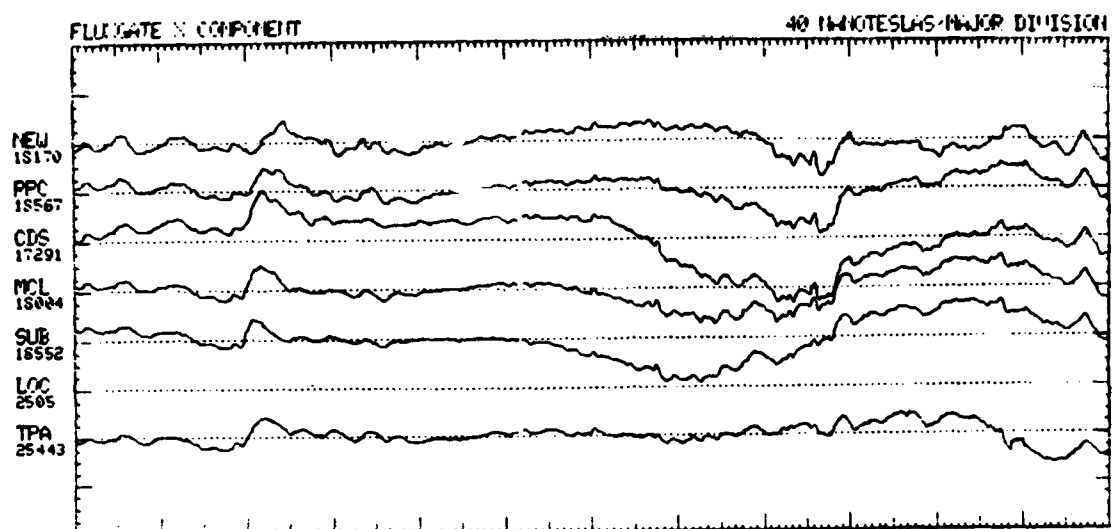


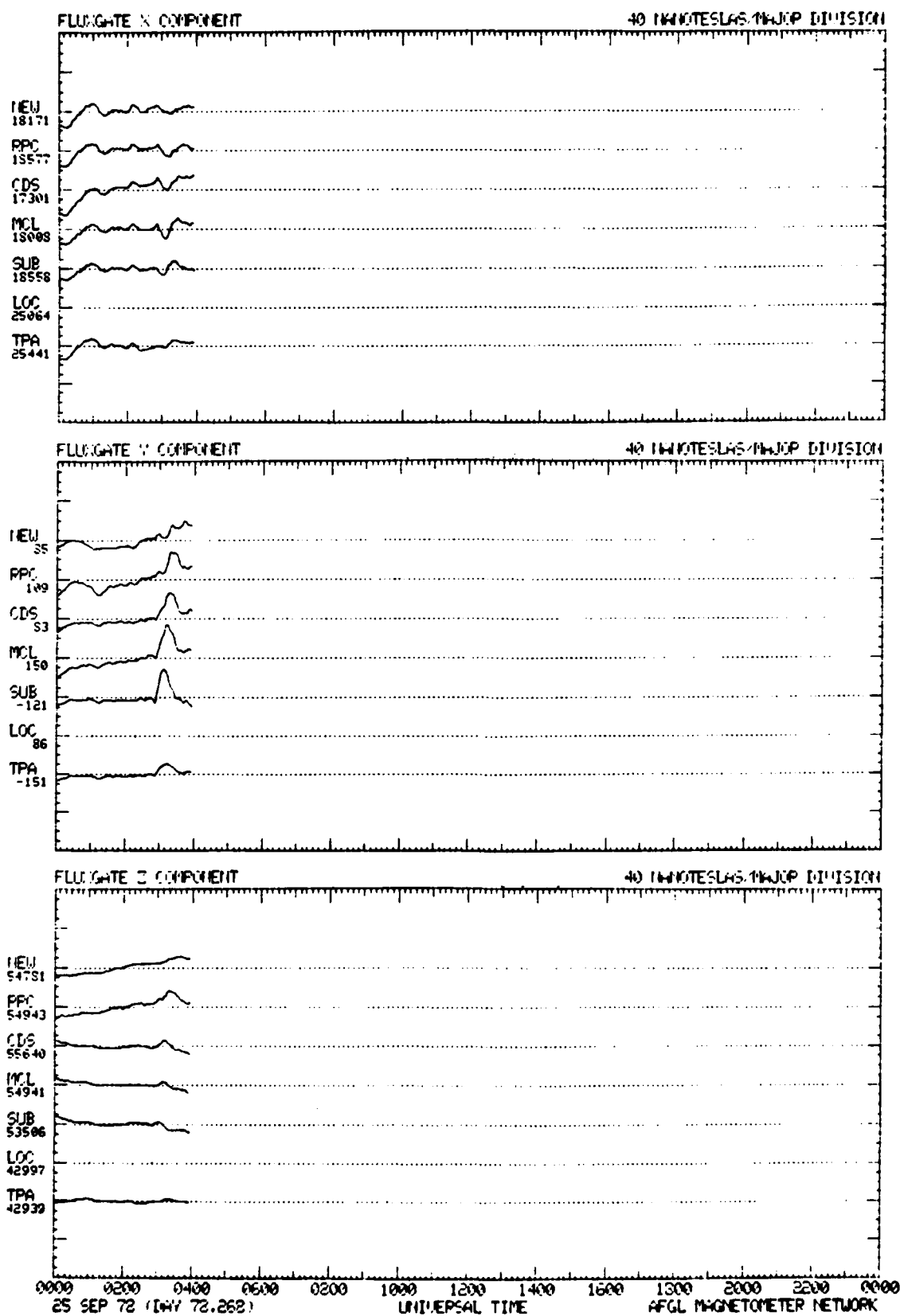








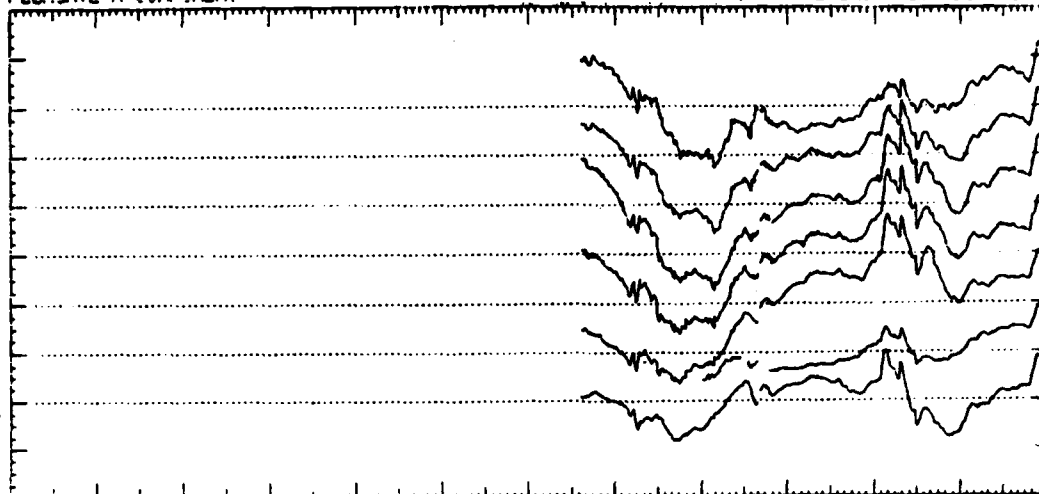




FLUXGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

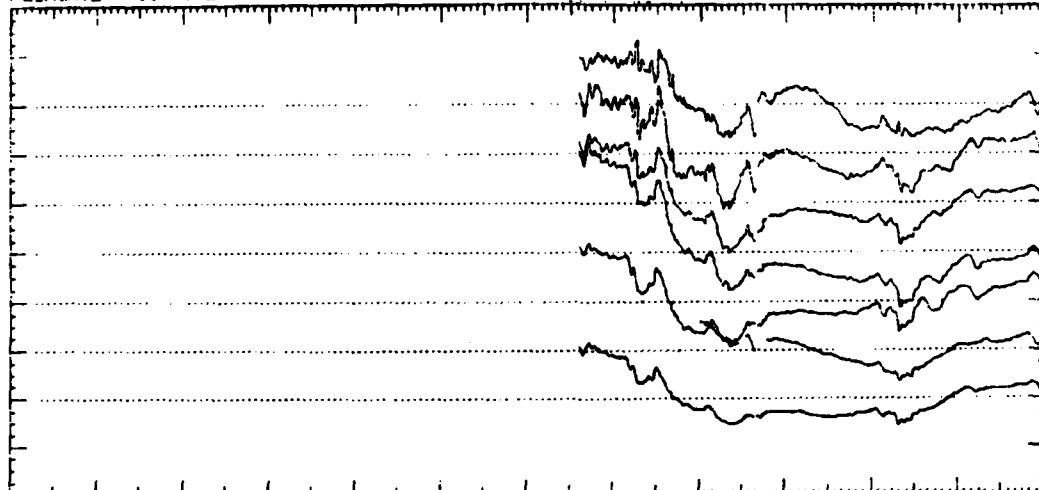
NEU
15142
RPC
15544
CDS
17249
MCL
17971
SUB
18515
LOC
25024
TPA
25416



FLUXGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

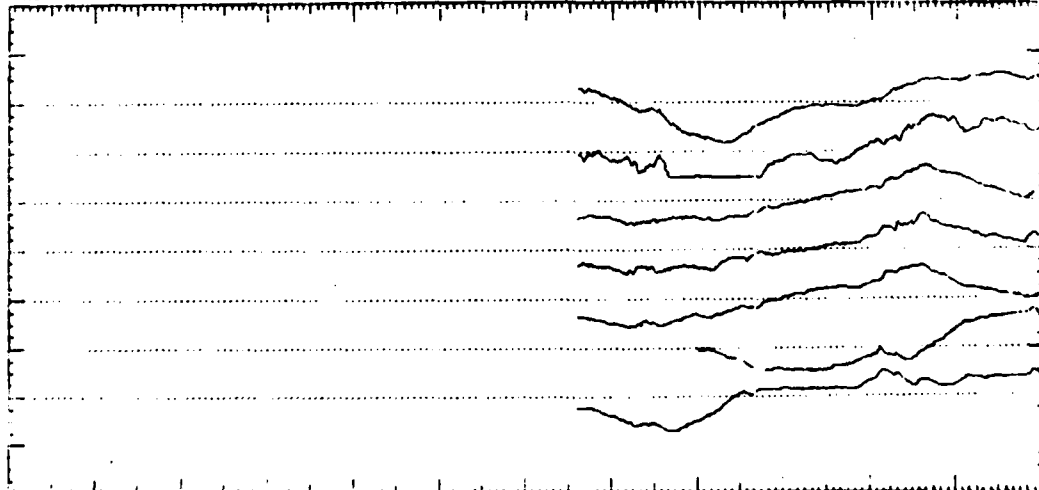
NEU
90
RPC
100
CDS
70
MCL
149
SUB
-149
LOC
34
TPA
-156



FLUXGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

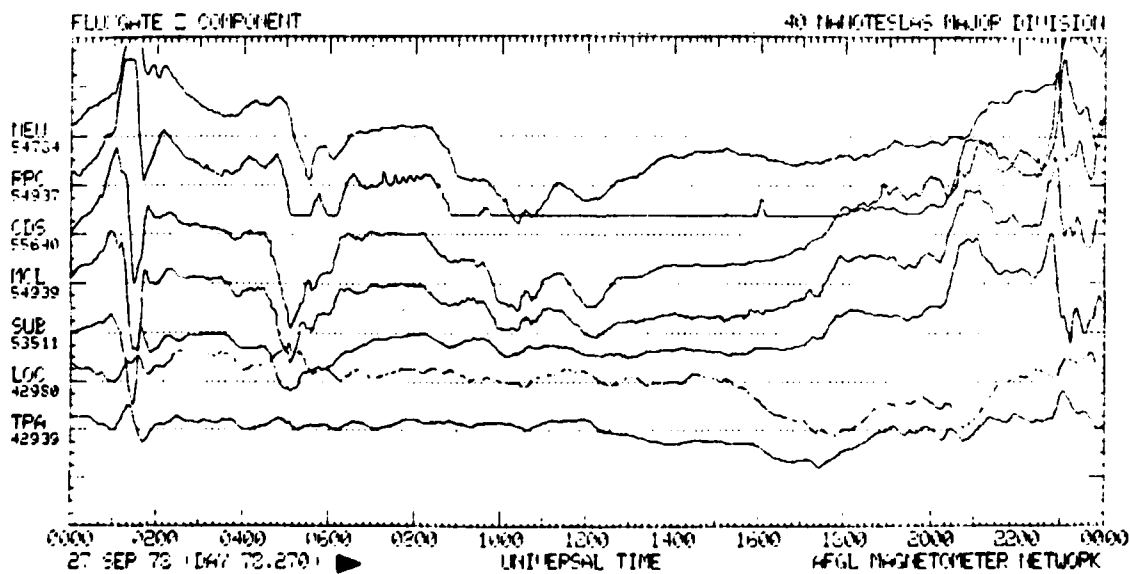
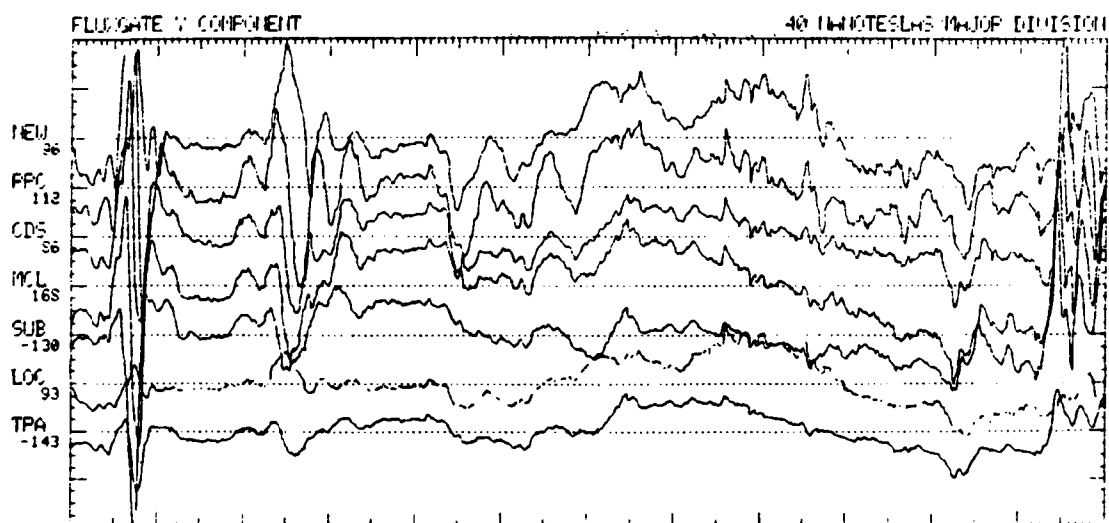
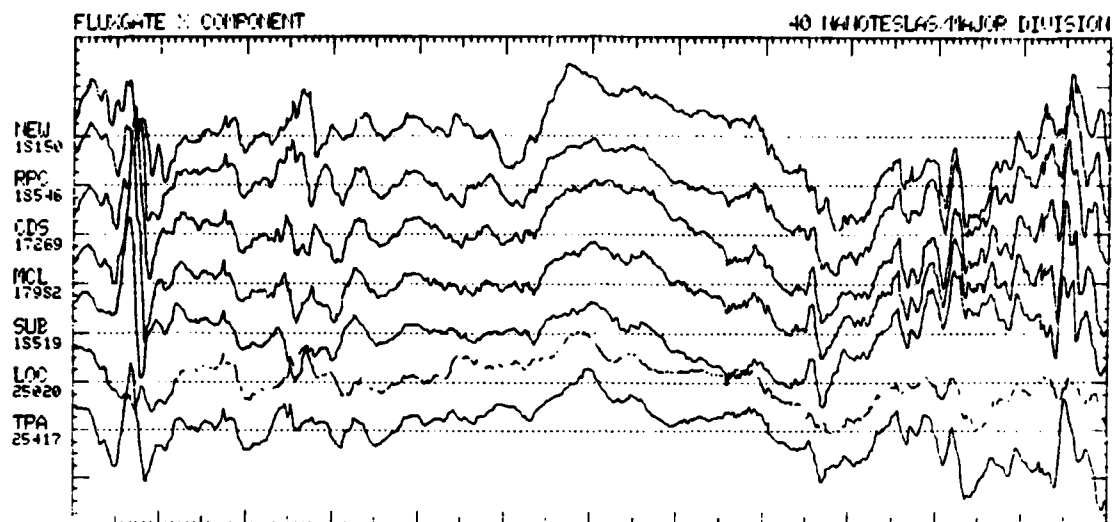
NEU
54773
RPC
54933
CDS
55641
MCL
54938
SUB
53511
LOC
42973
TPA
42935

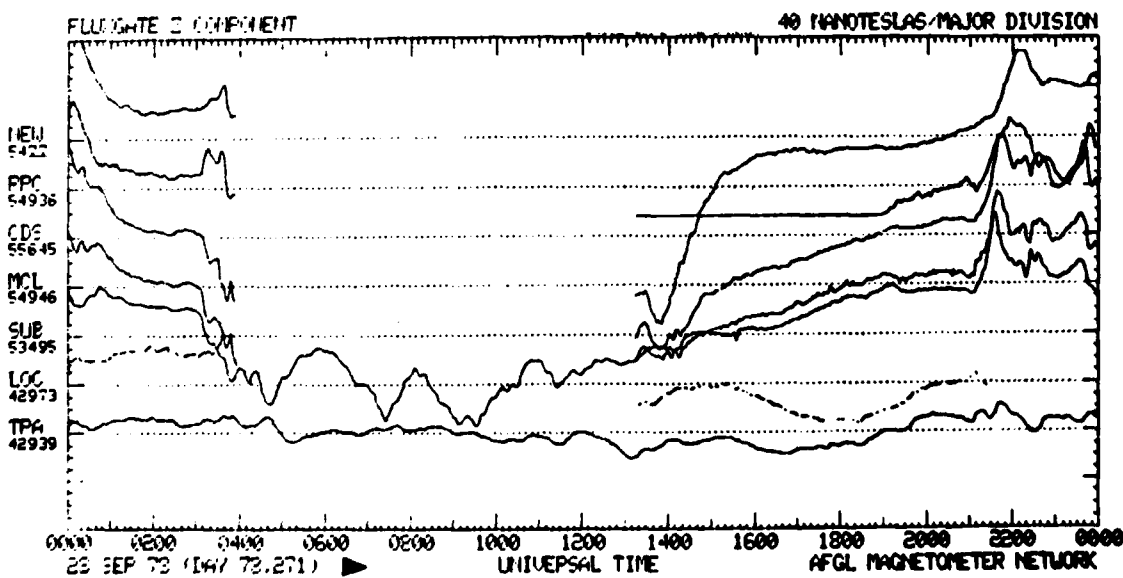
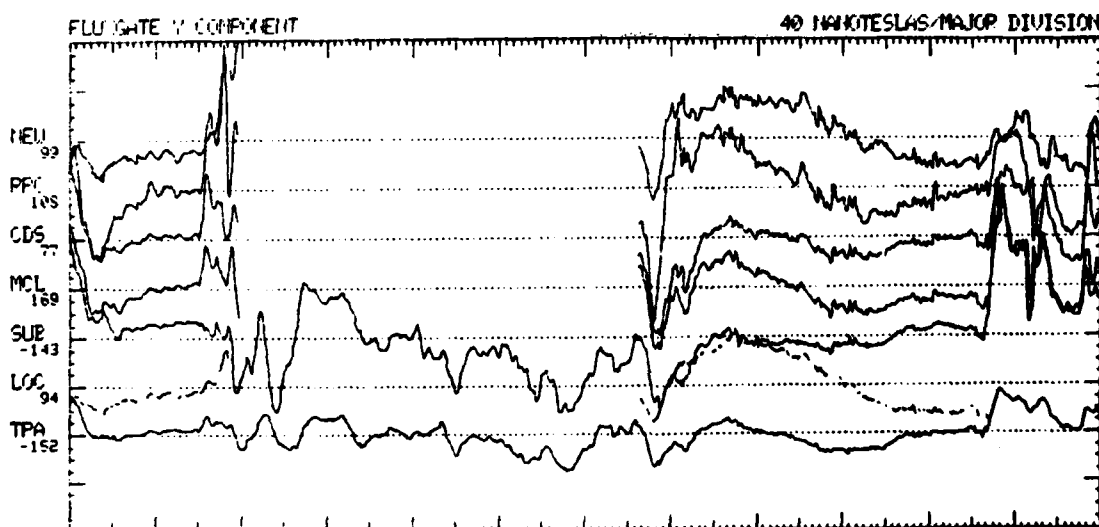
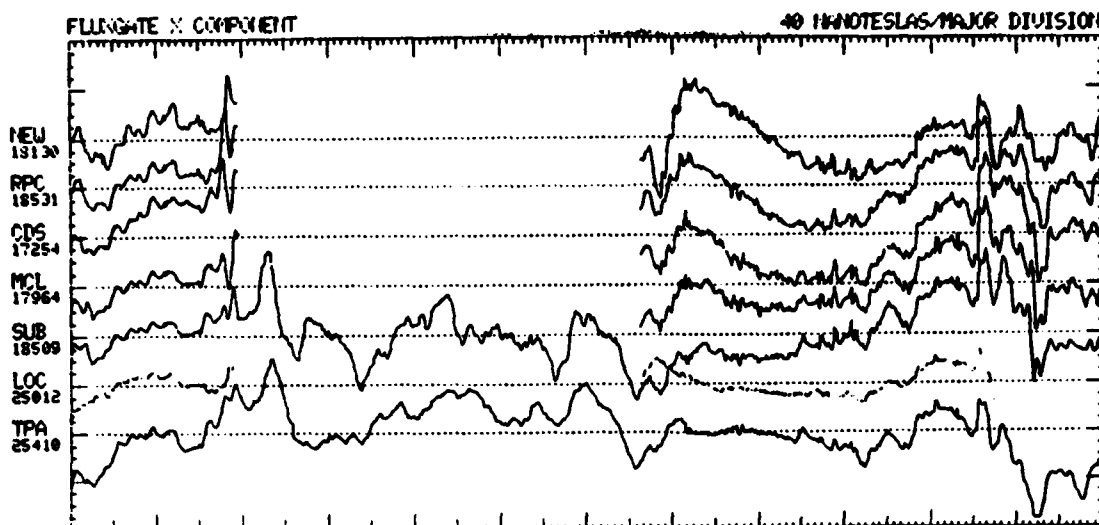


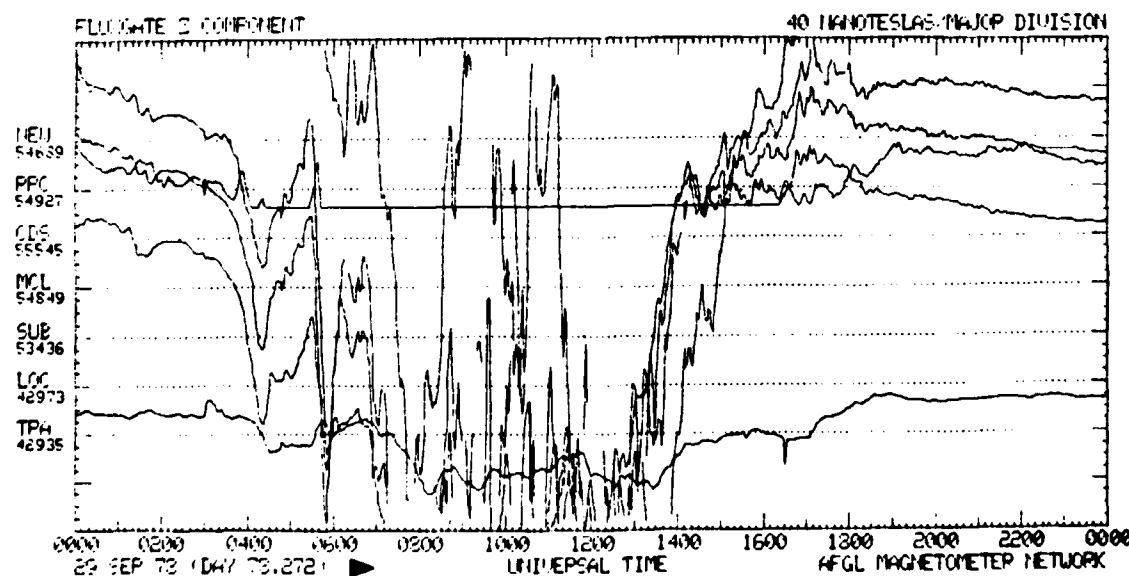
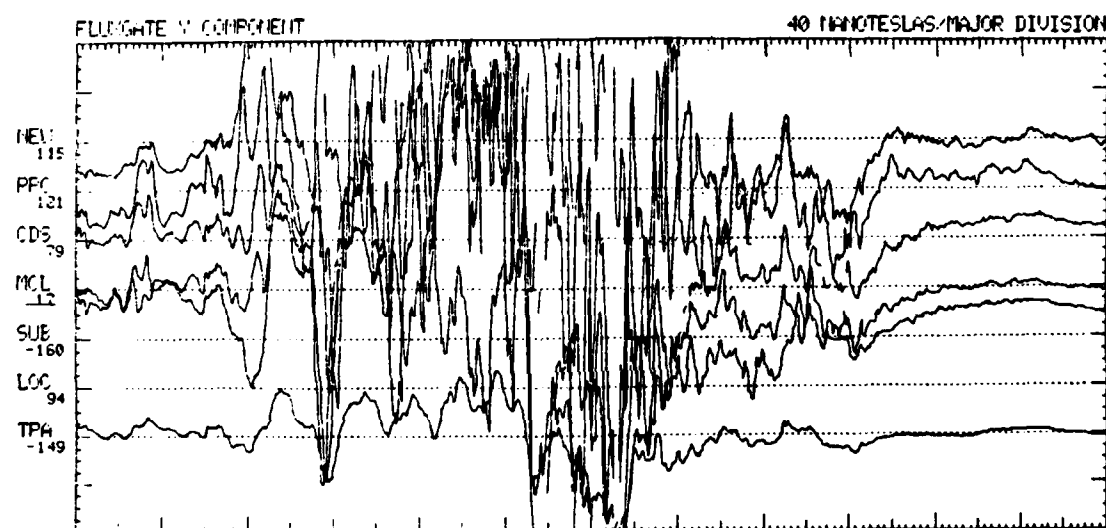
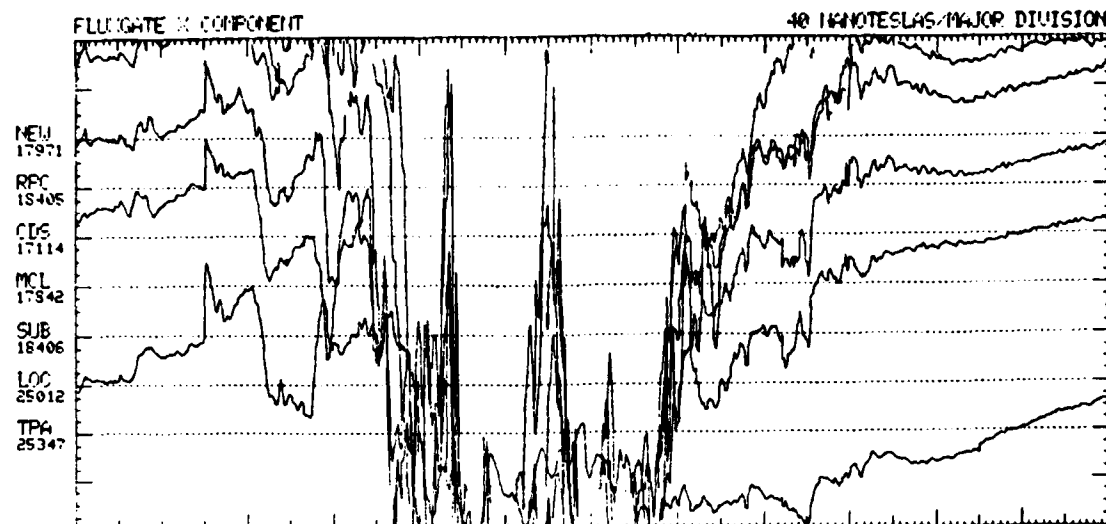
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26 SEP 73 (147 78.269)

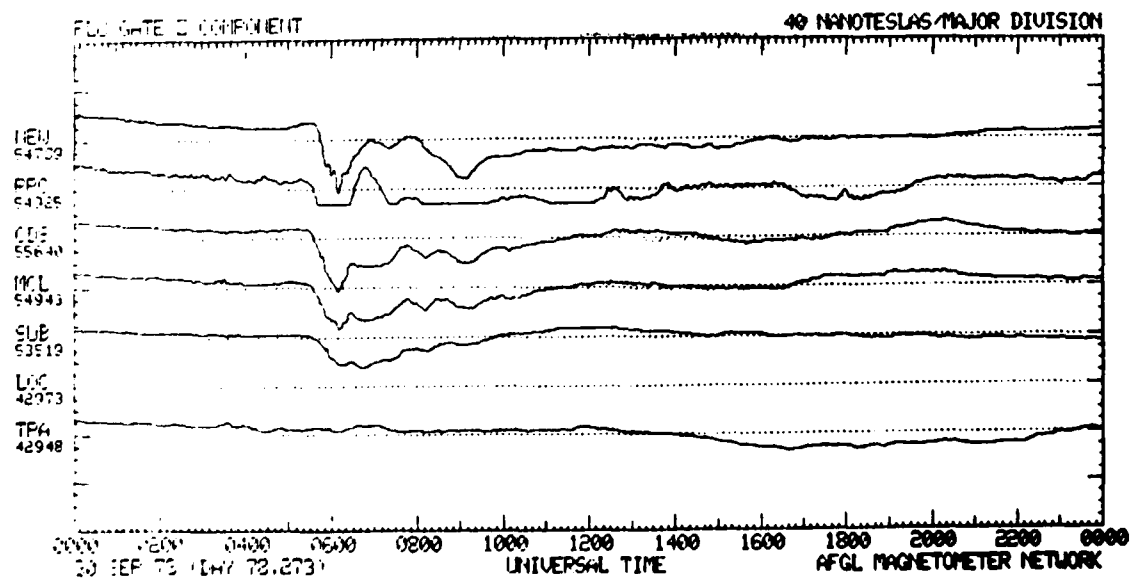
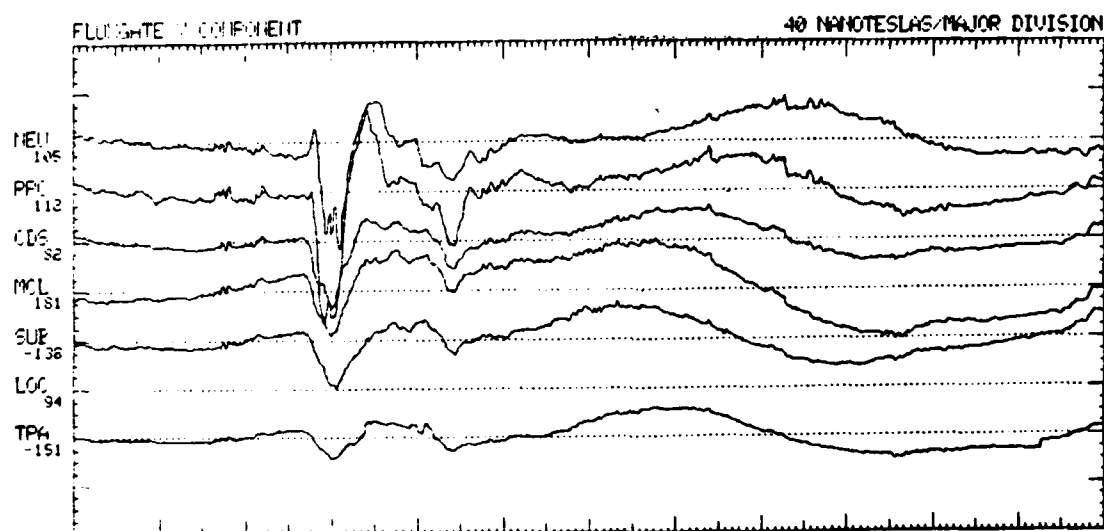
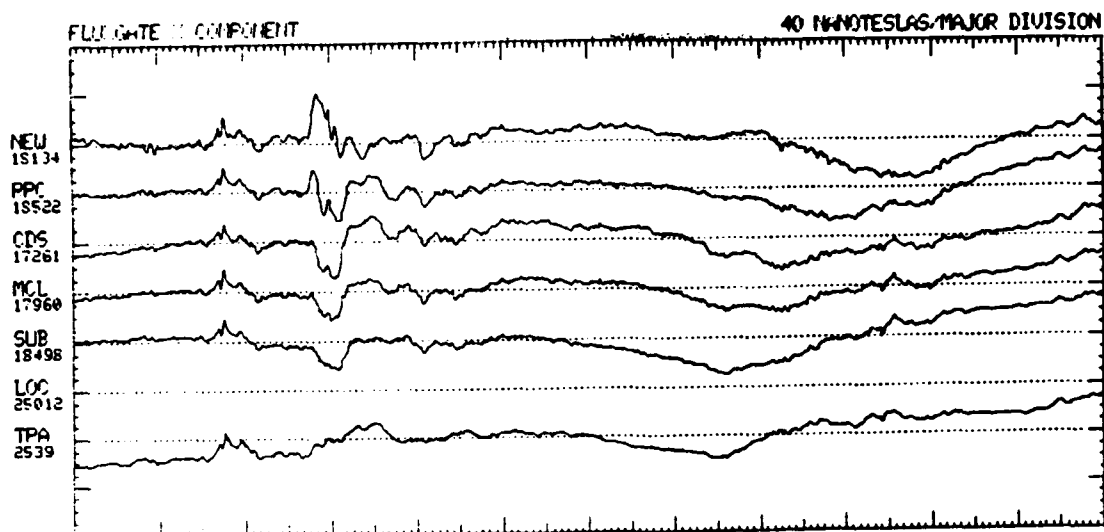
UNIVERSAL TIME

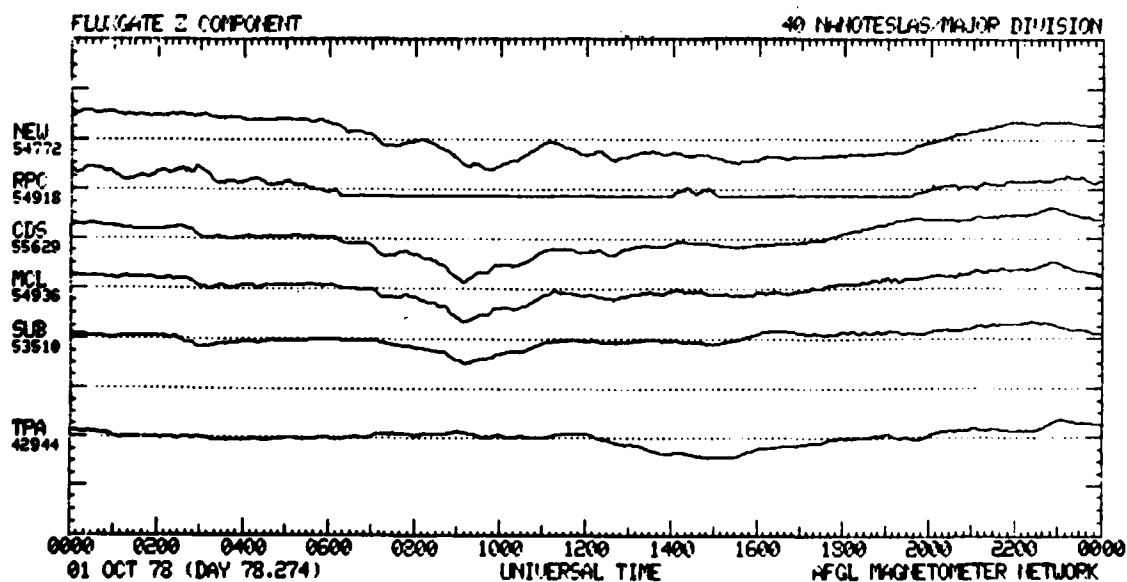
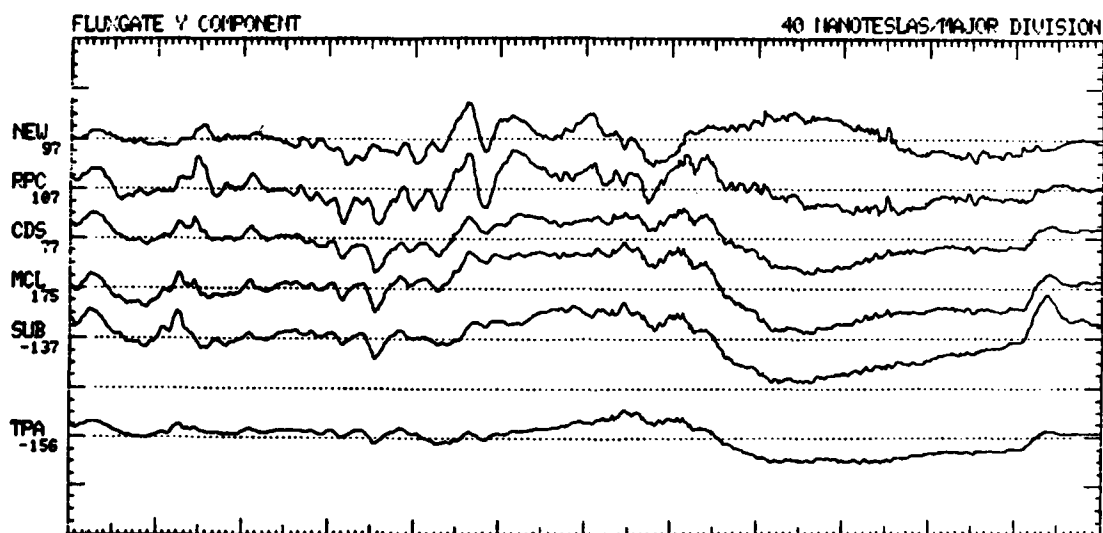
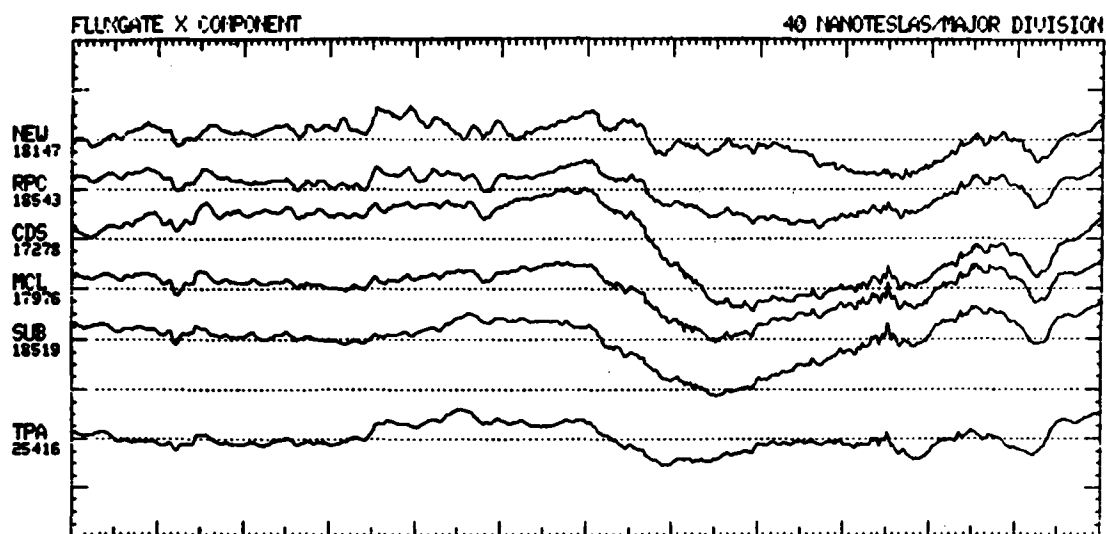
AFGL MAGNETOMETER NETWORK

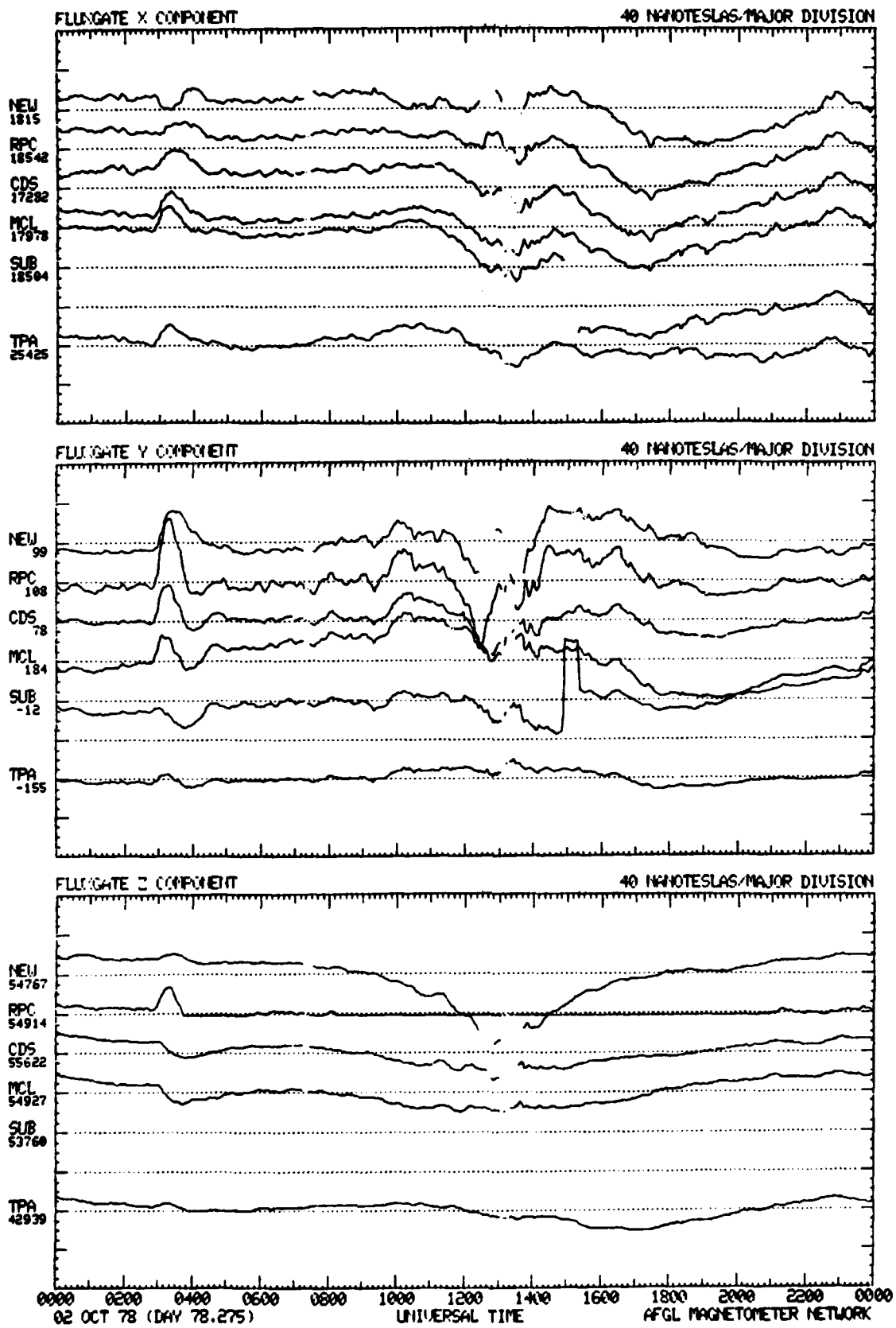












AD-A168 759 DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS 4/5

AD-A168 759 DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS 4/5

AD-A168 759 DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS 4/5

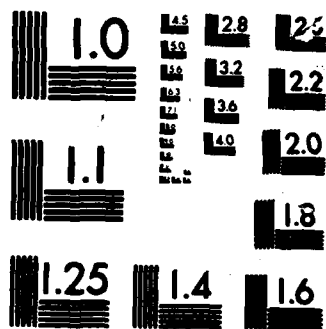
UNCLASSIFIED

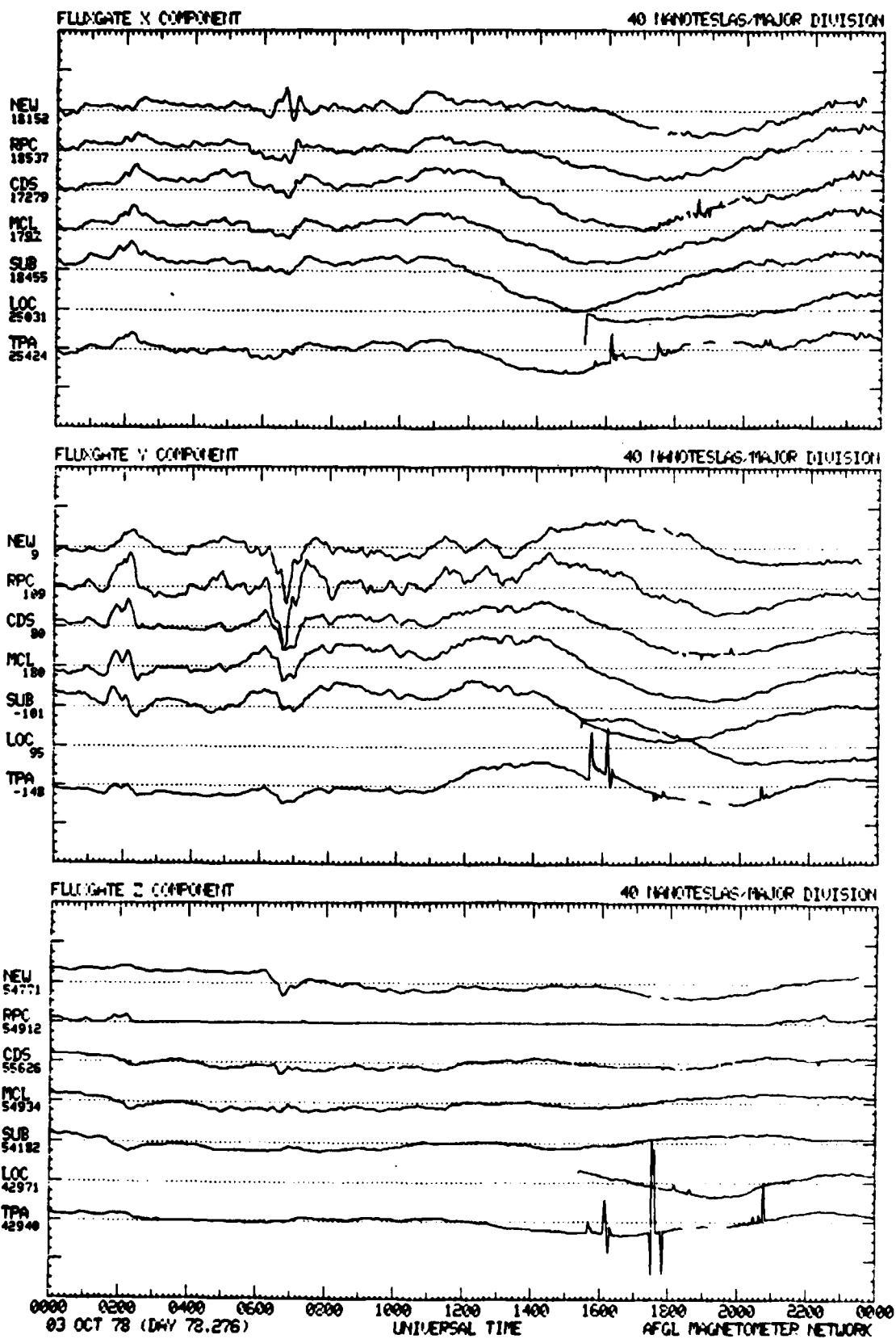
UNCLASSIFIED

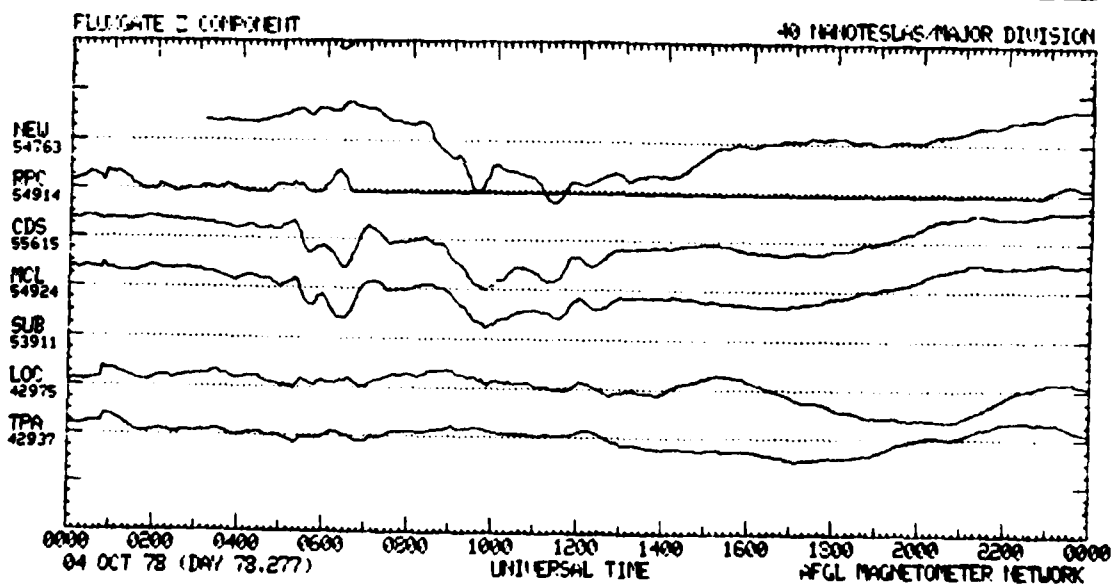
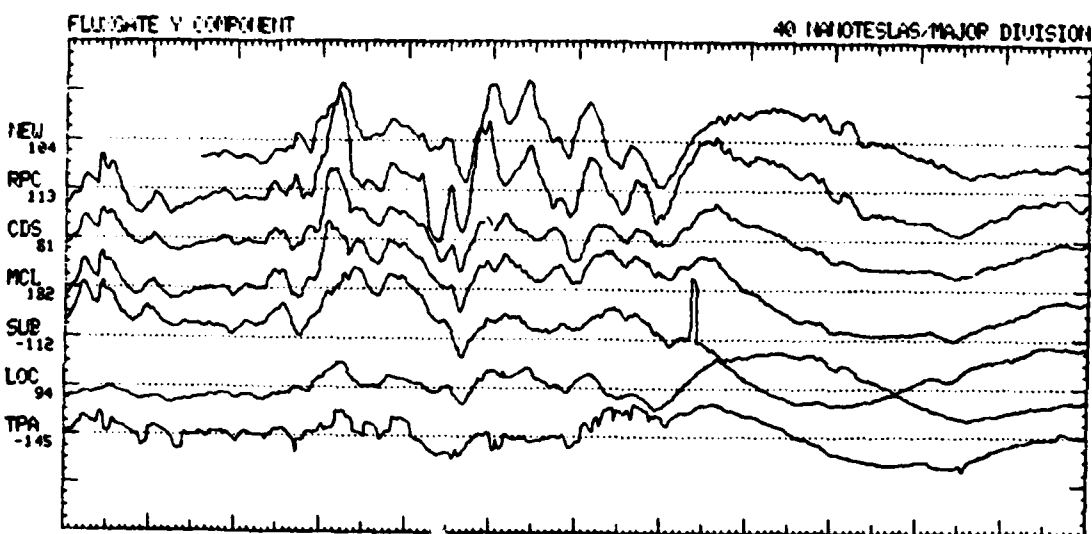
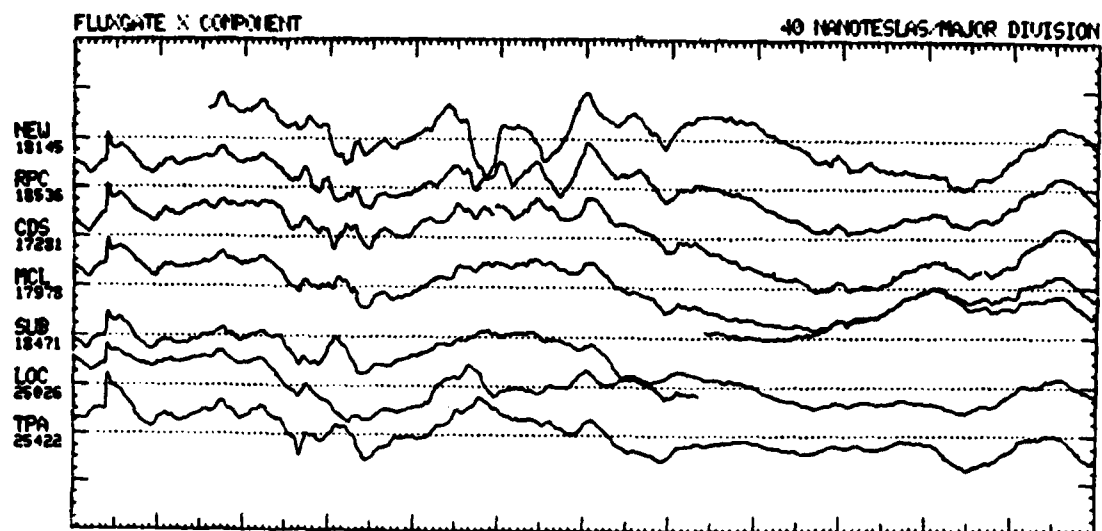
UNCLASSIFIED AFGL-TR-85-0027 F/G 8/14 NL

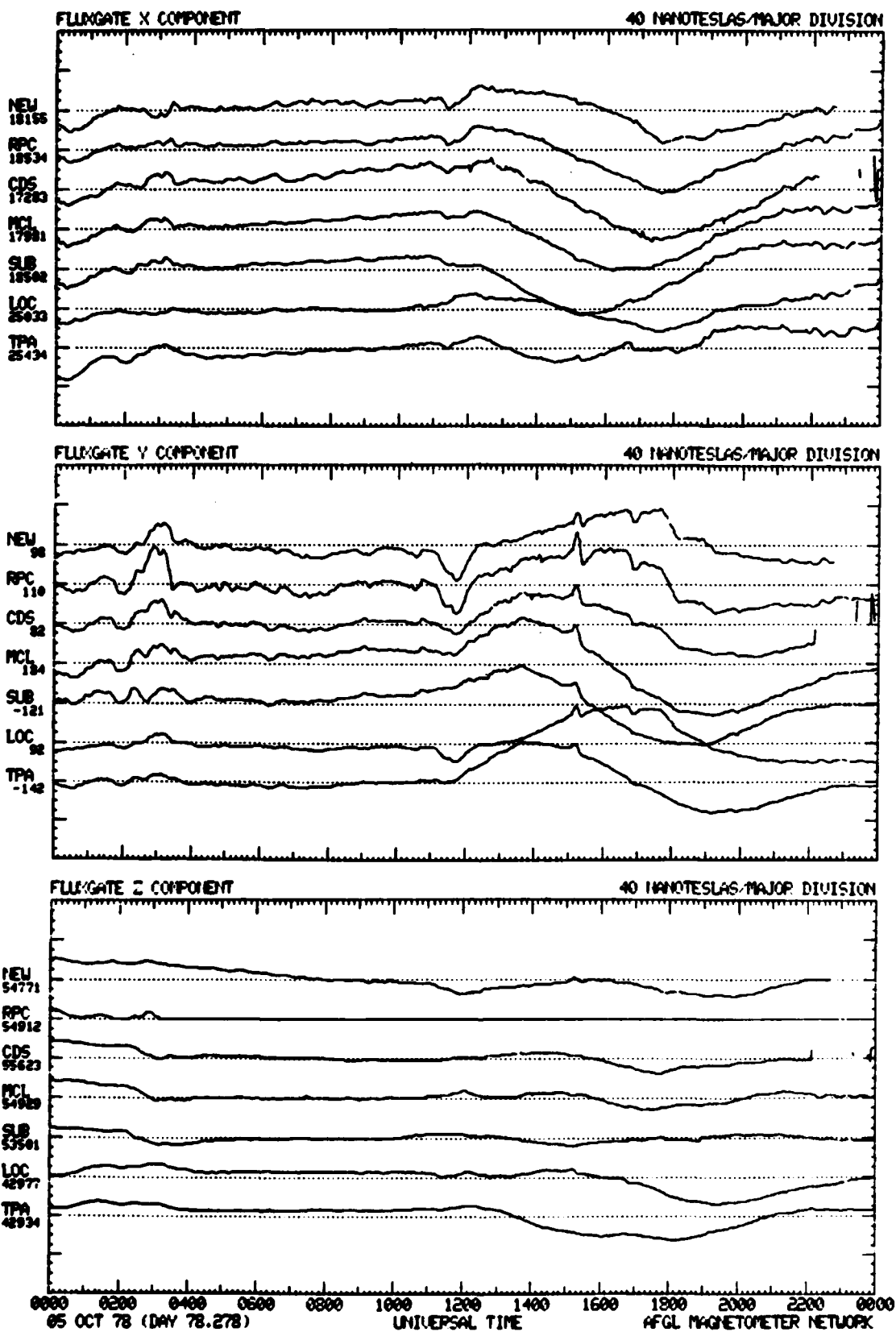
UNCLASSIFIED AFGL-TR-85-0027 F/G 8/14 NL

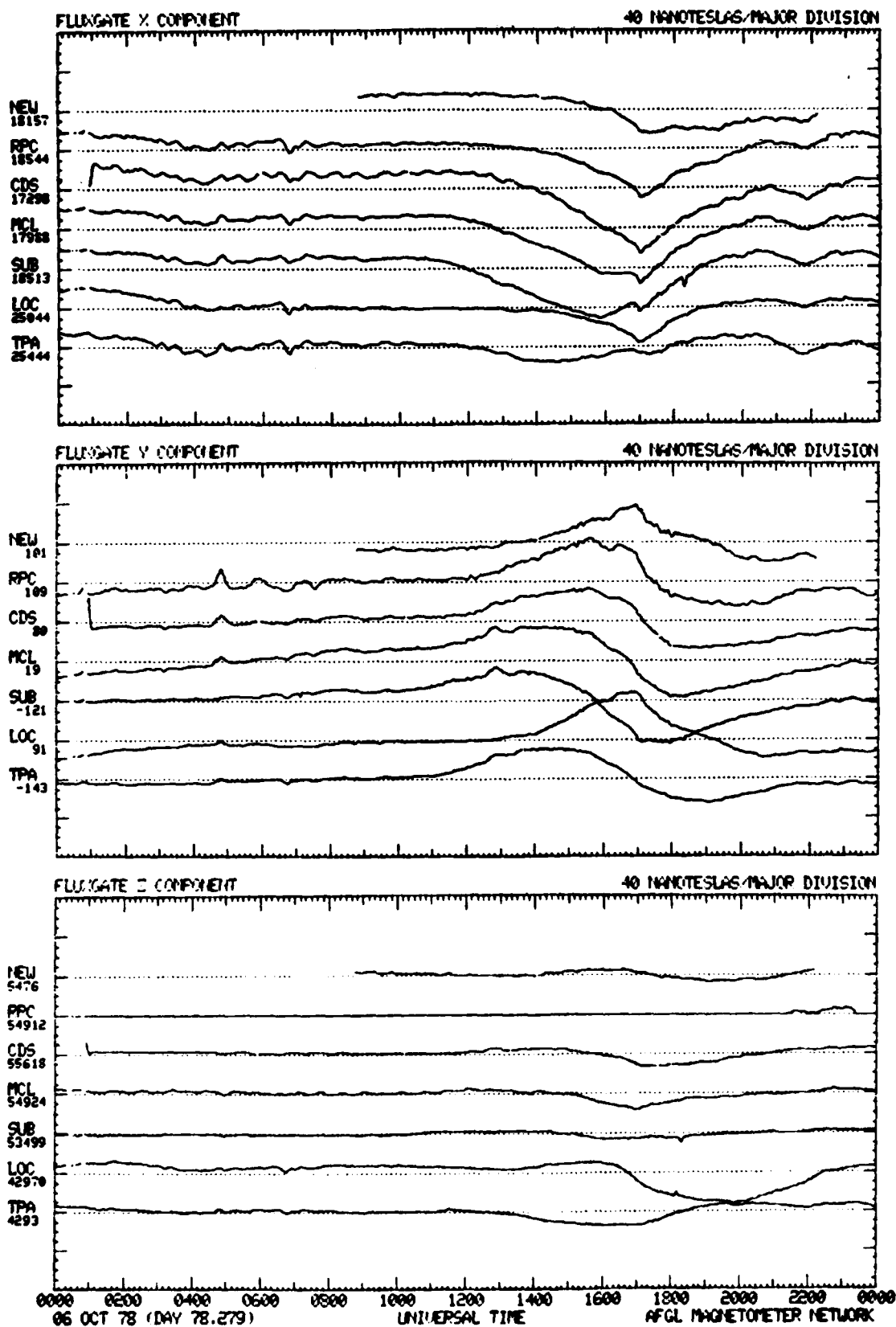
A 10x10 grid of squares, with the top-left square missing, forming a shape resembling a staircase or a corner.

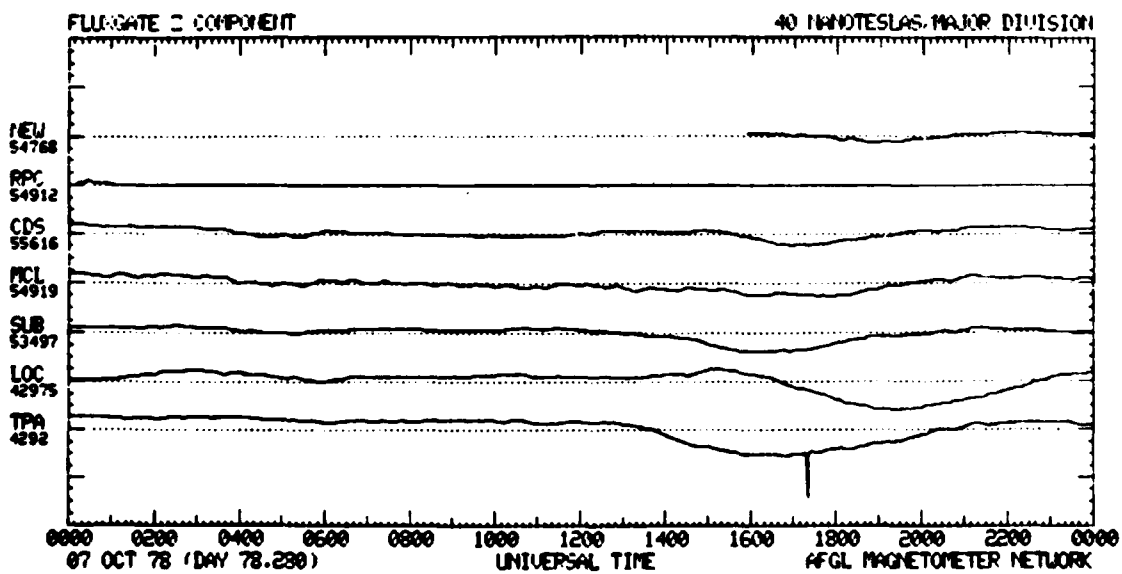
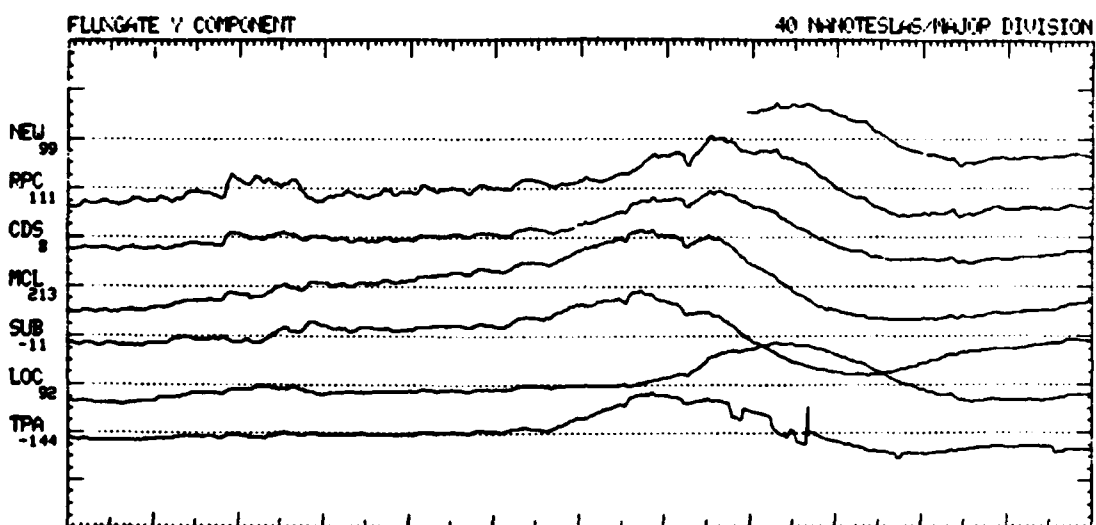
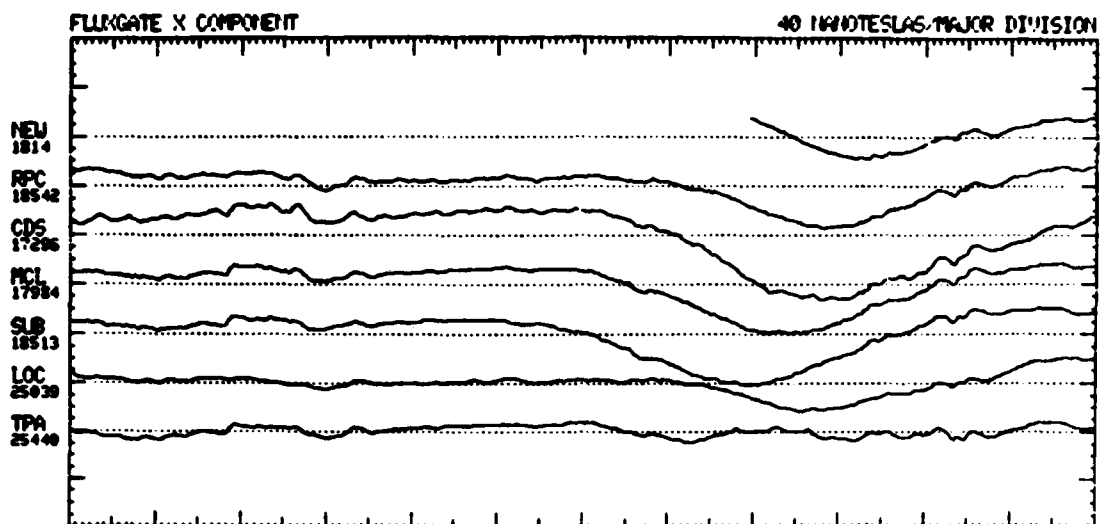


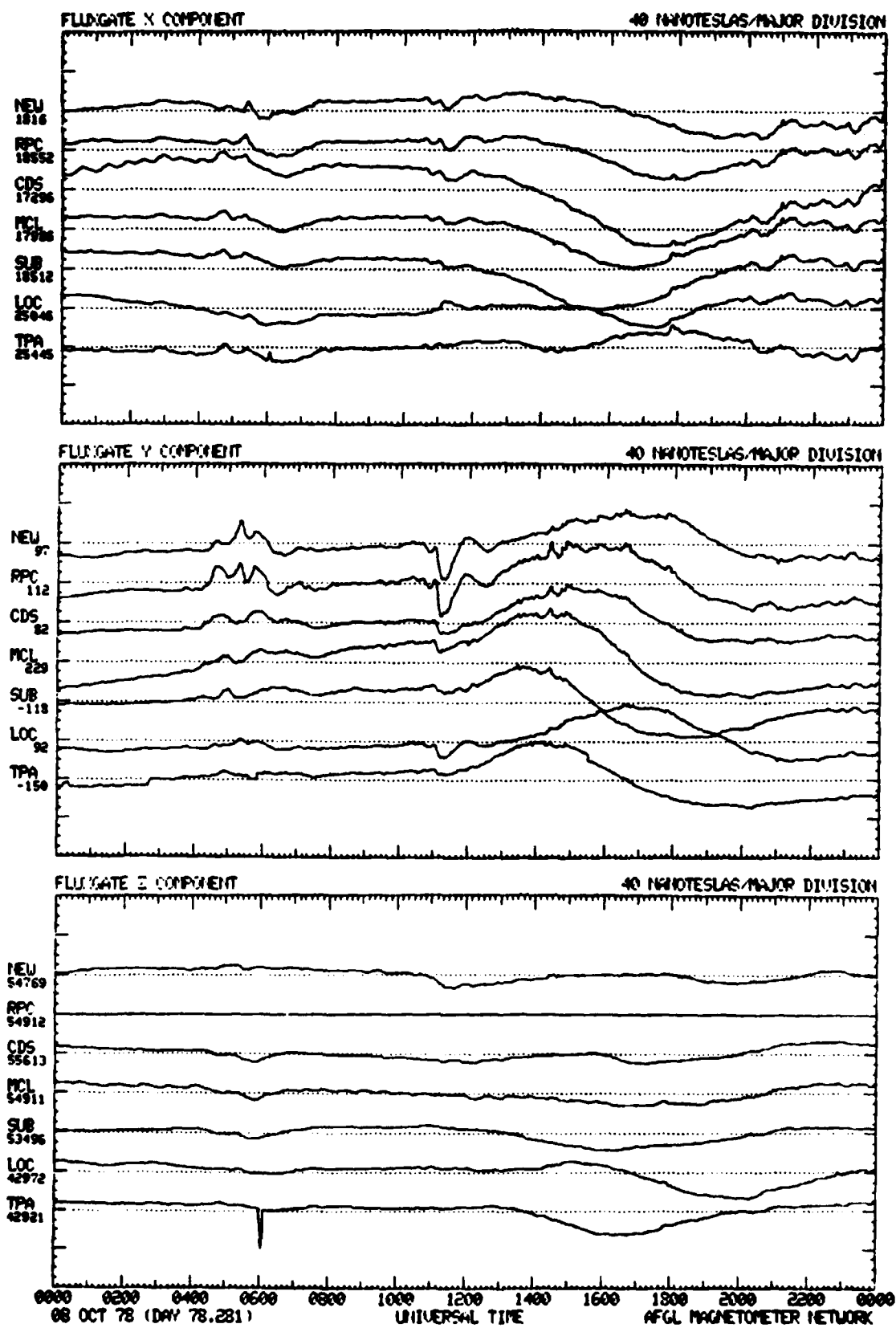


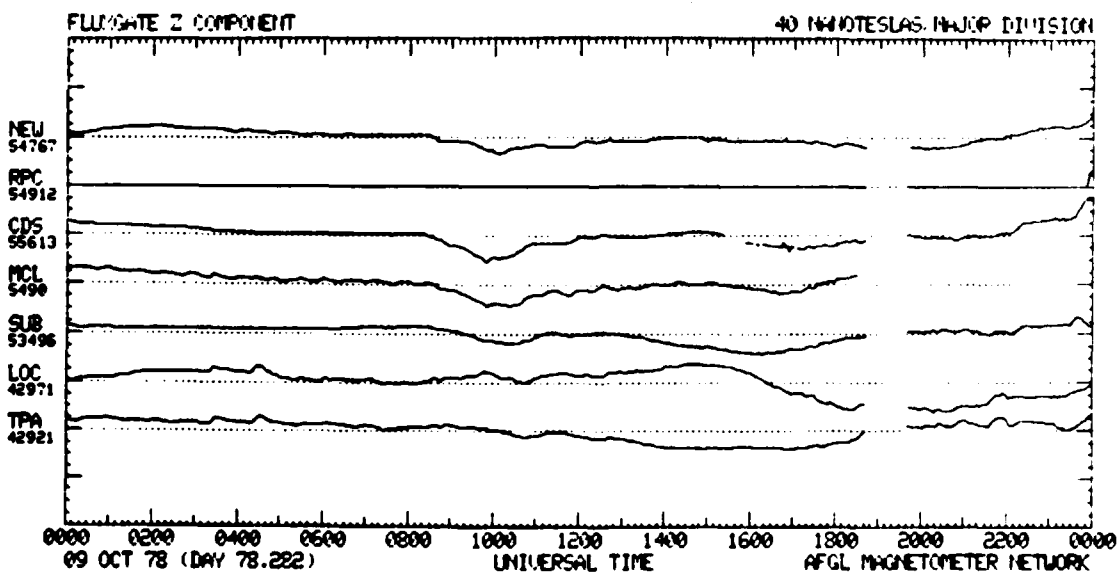
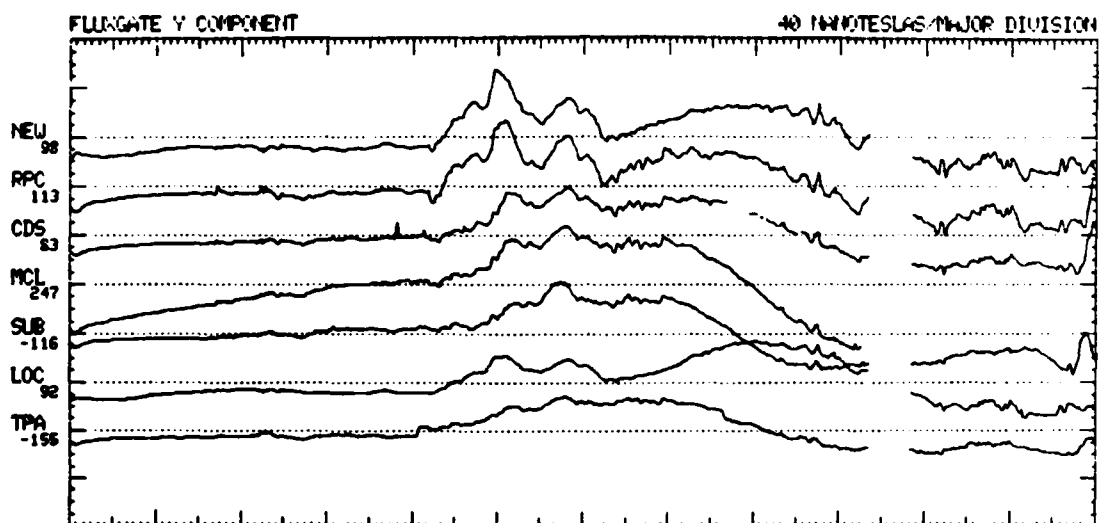
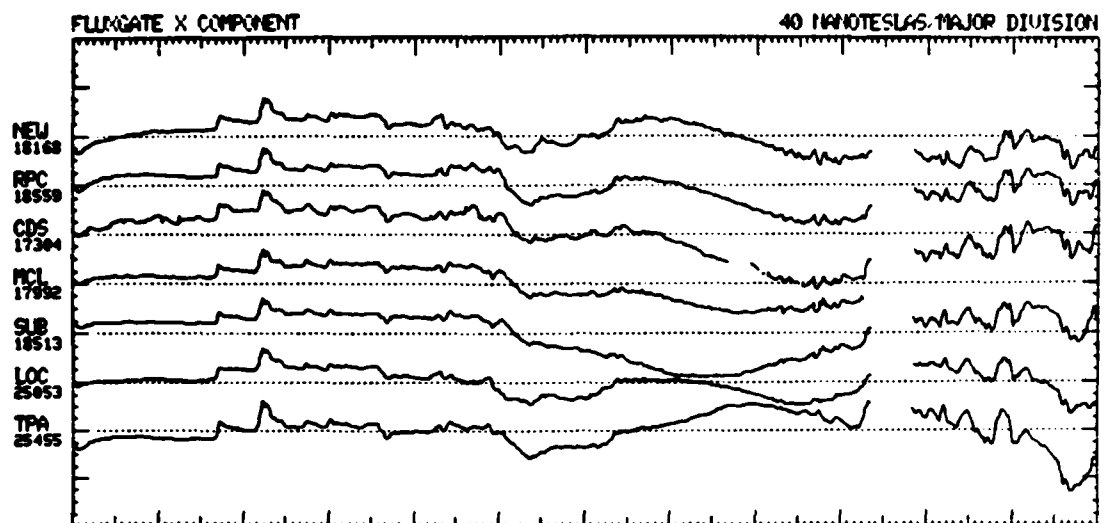


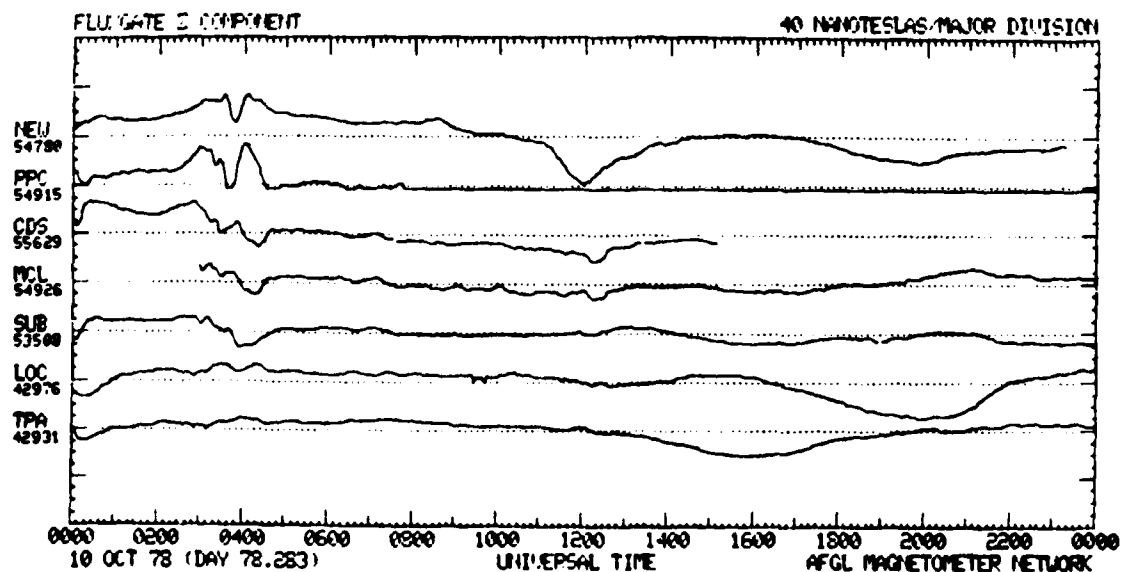
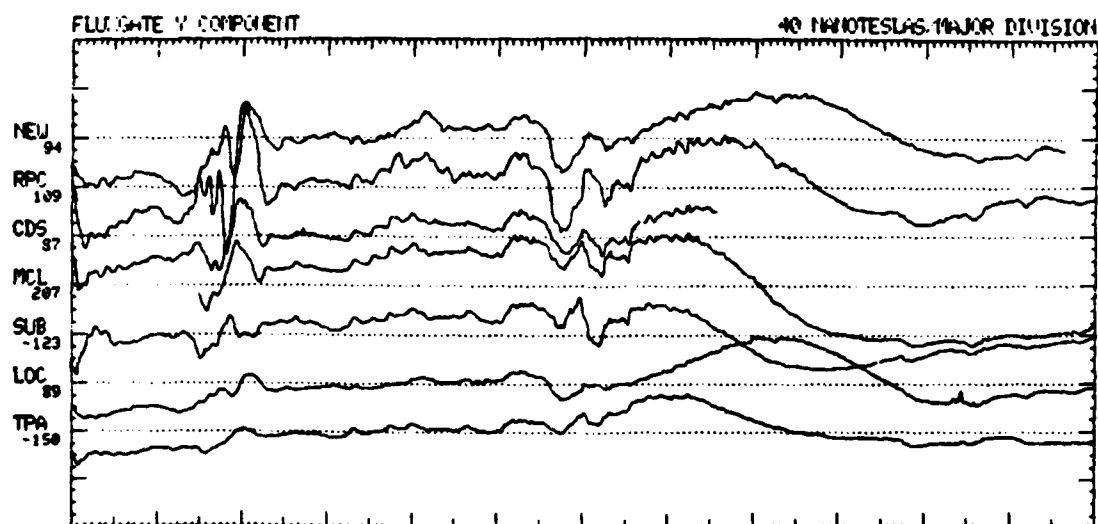
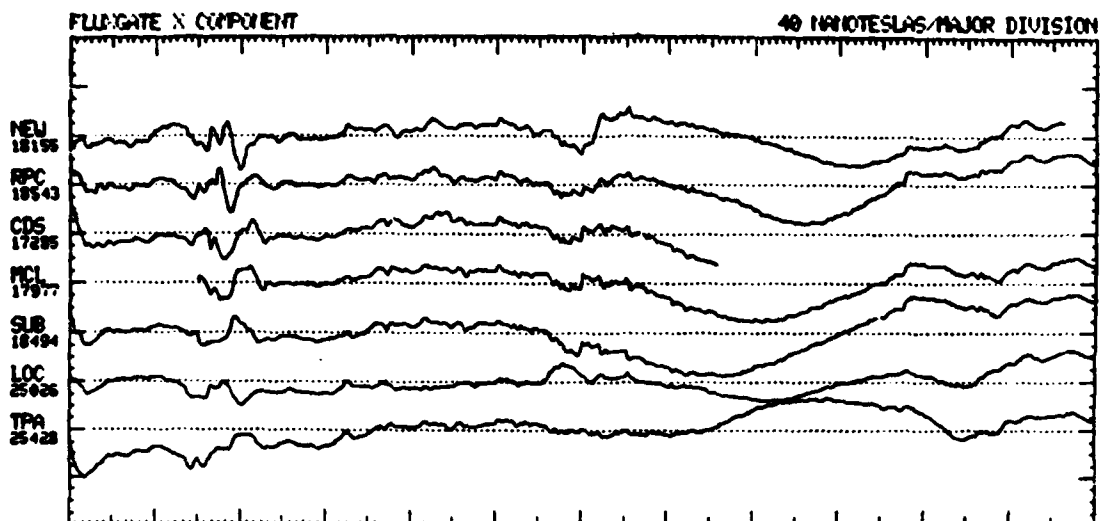


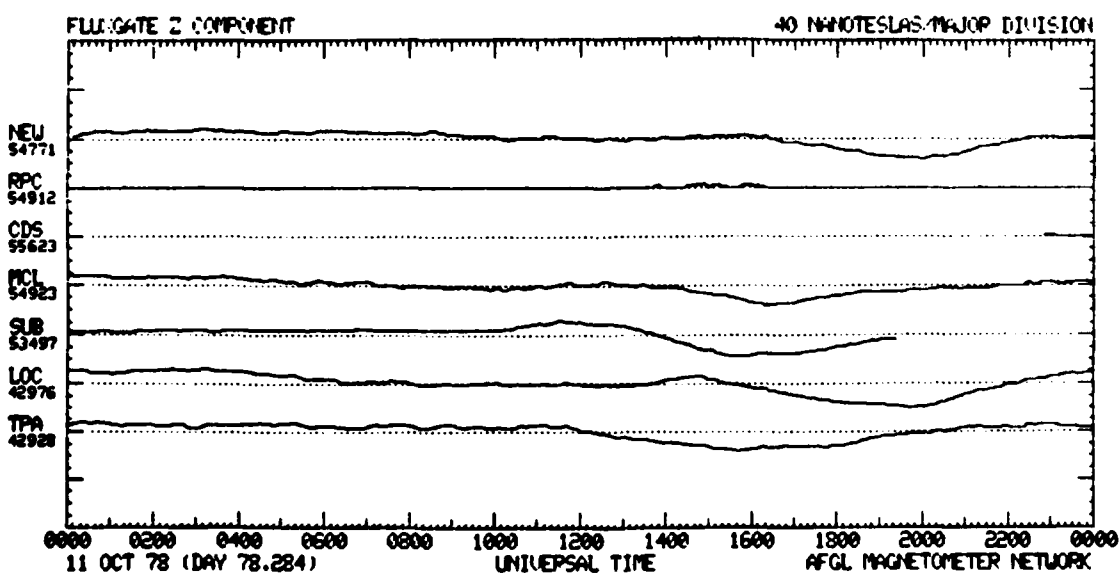
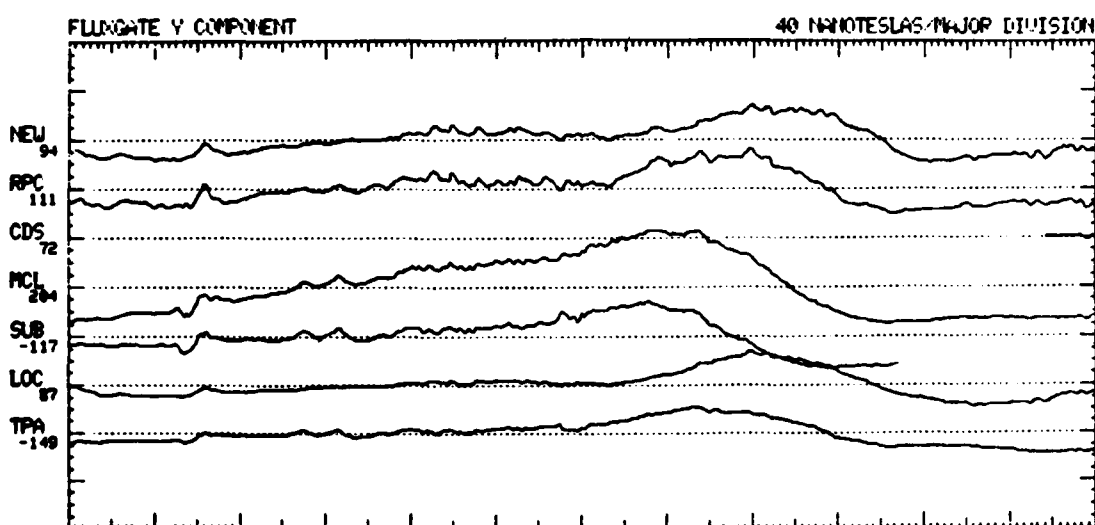
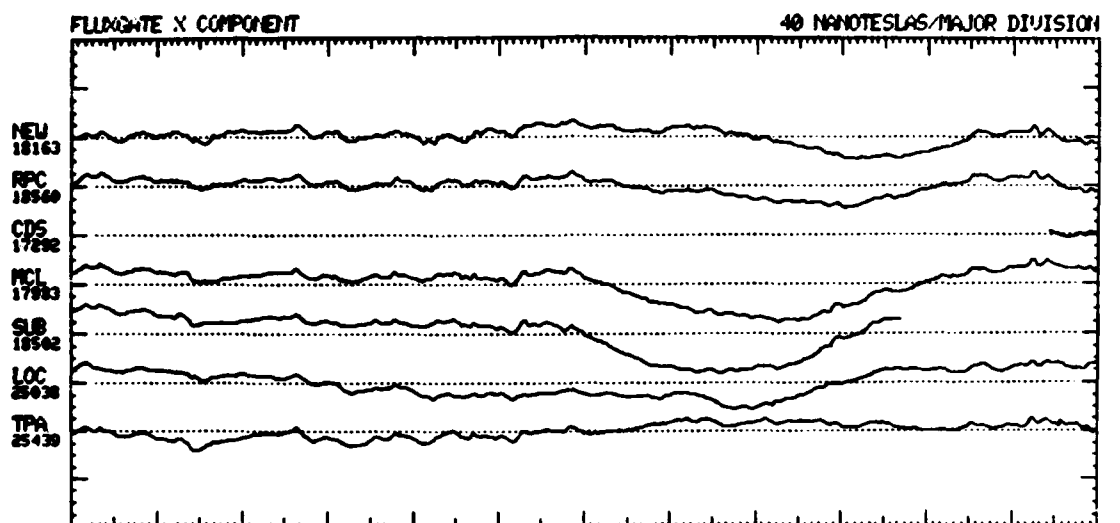


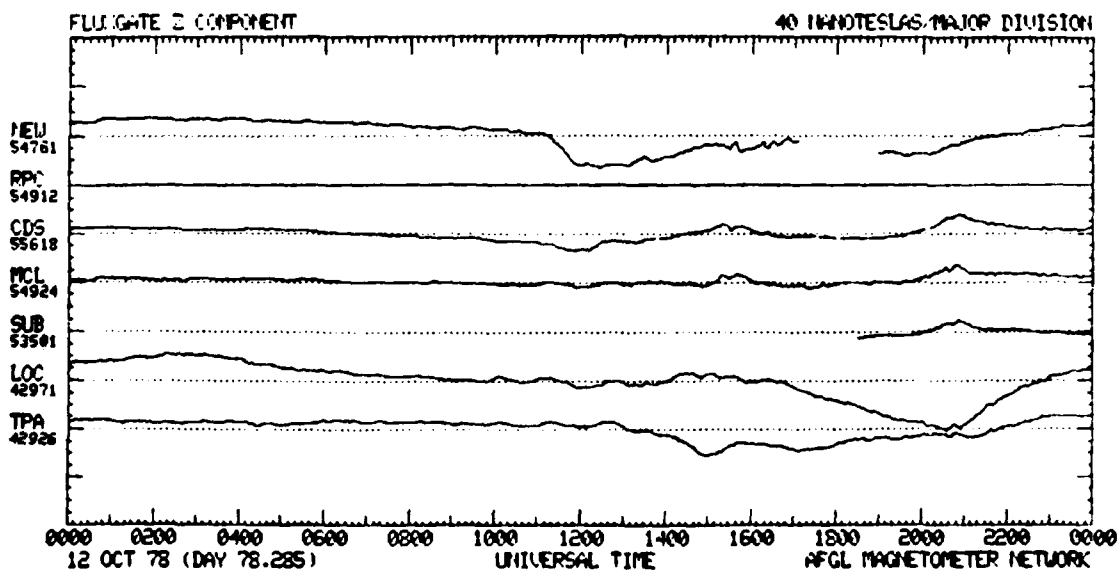
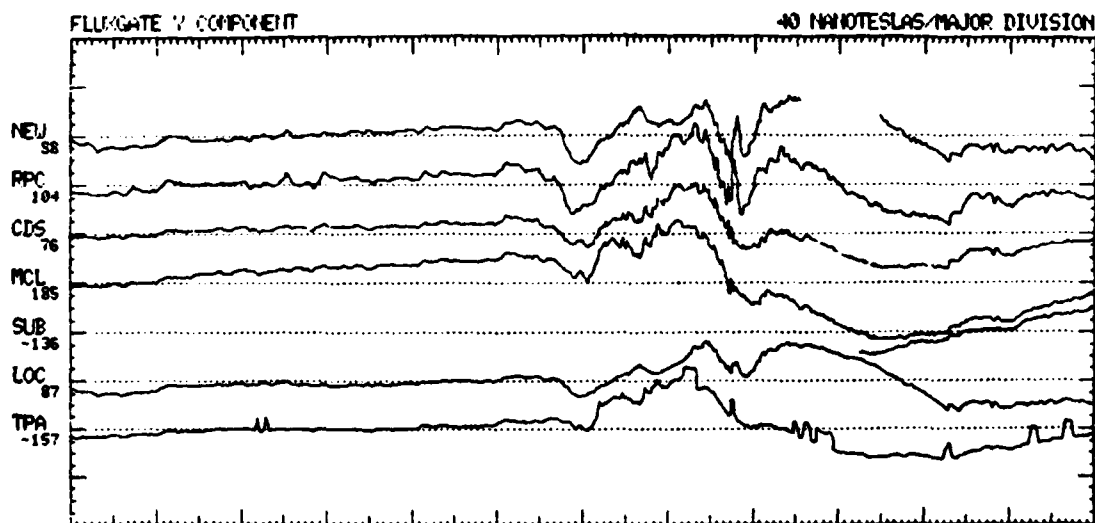
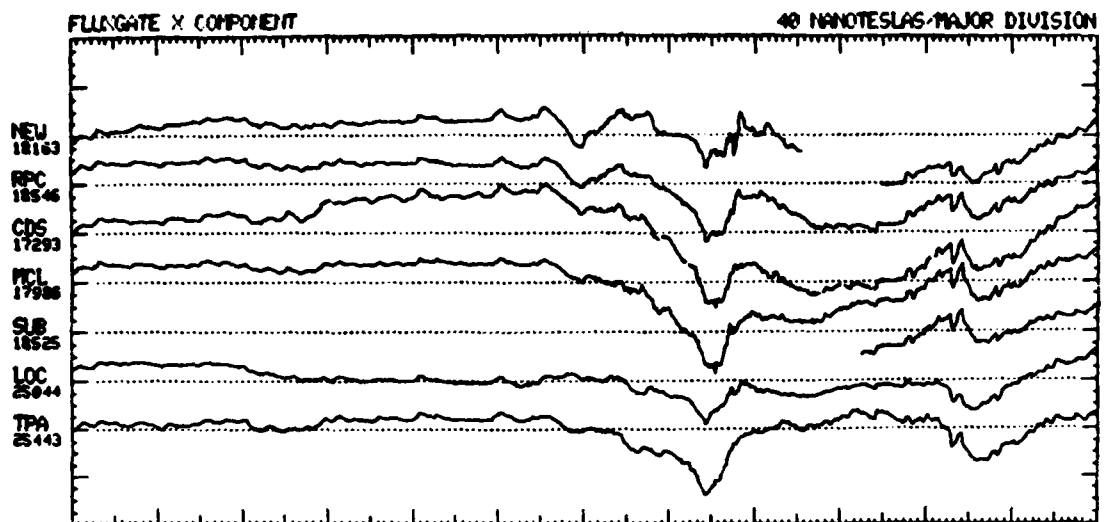


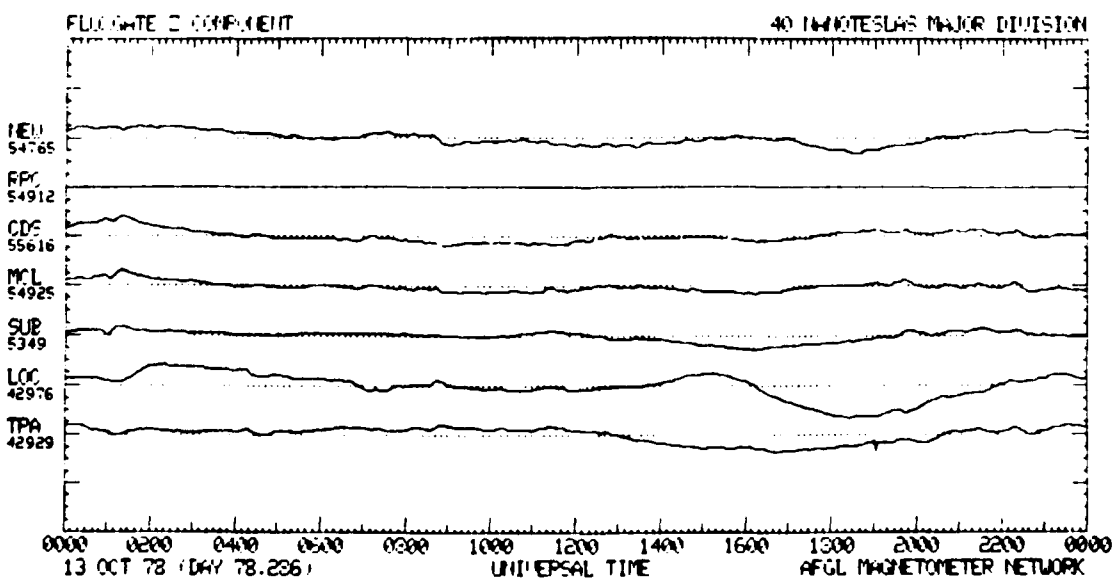
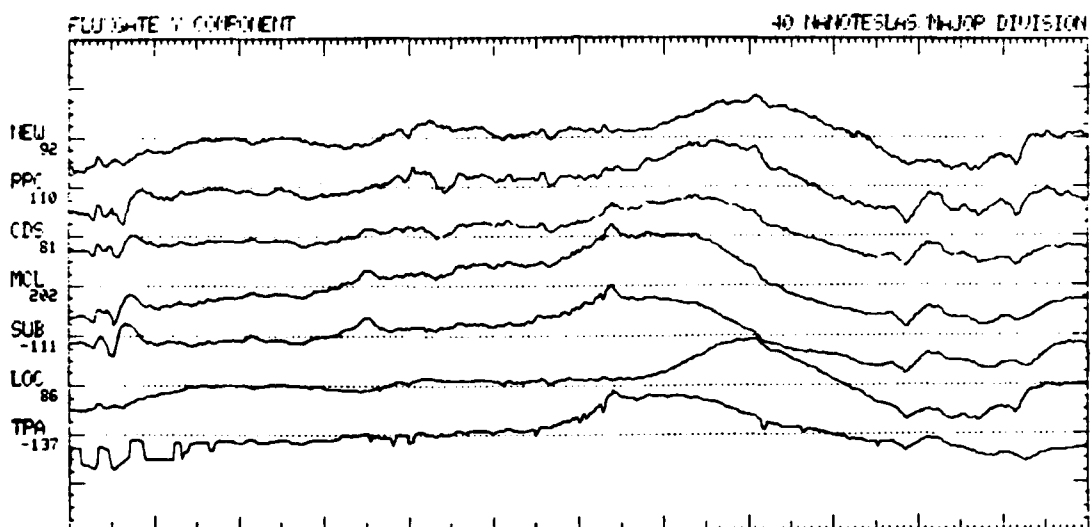
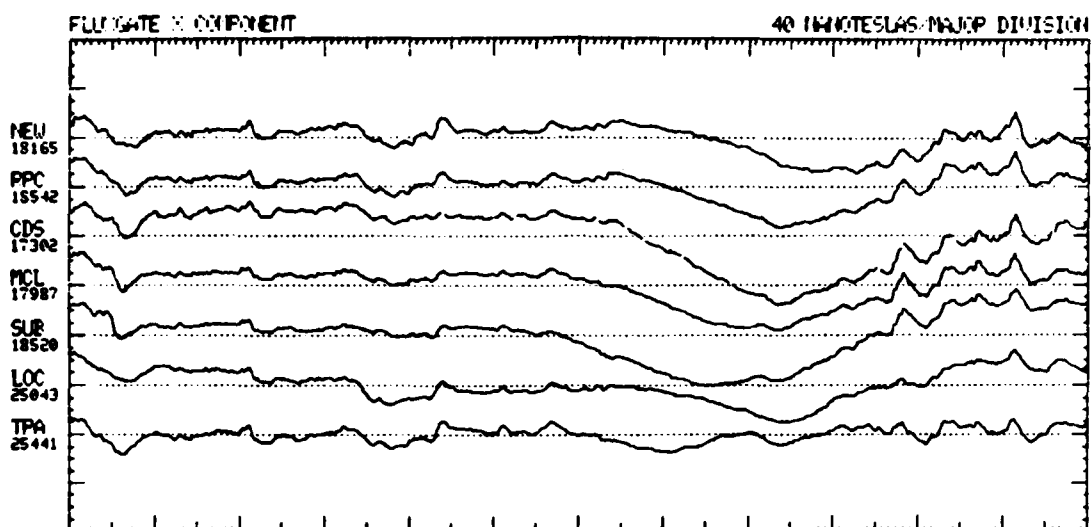


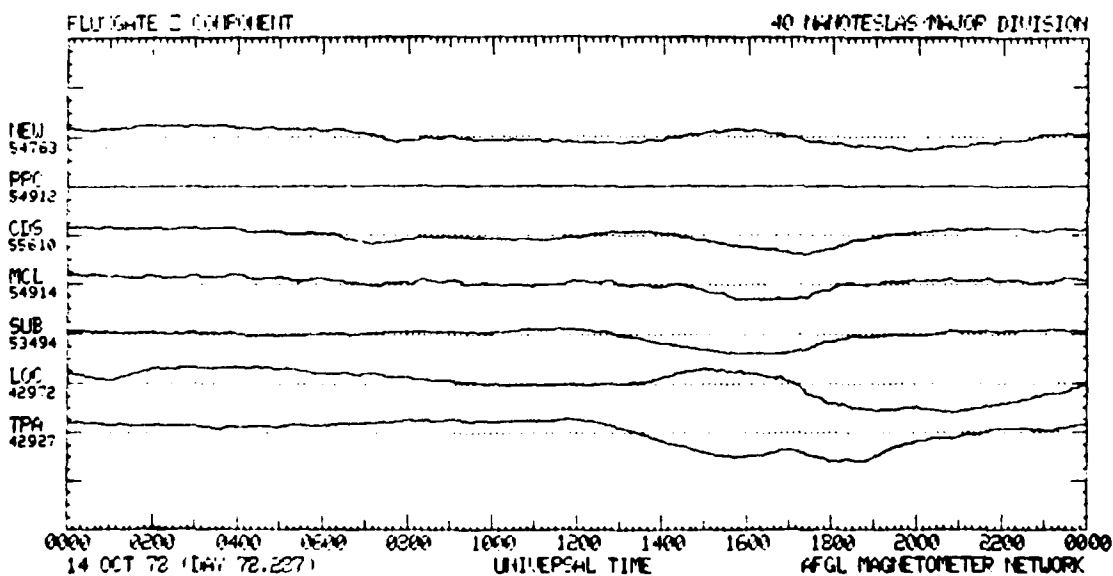
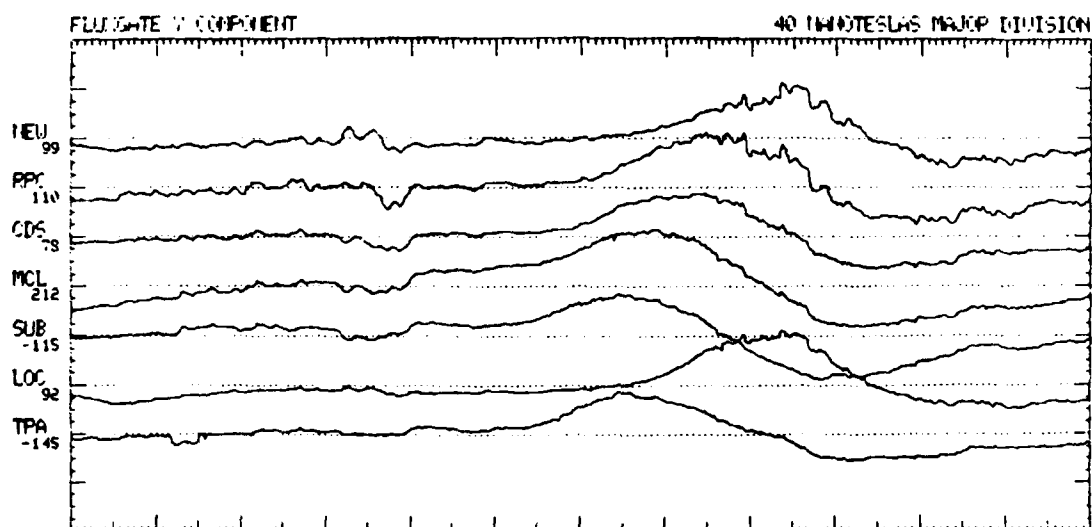
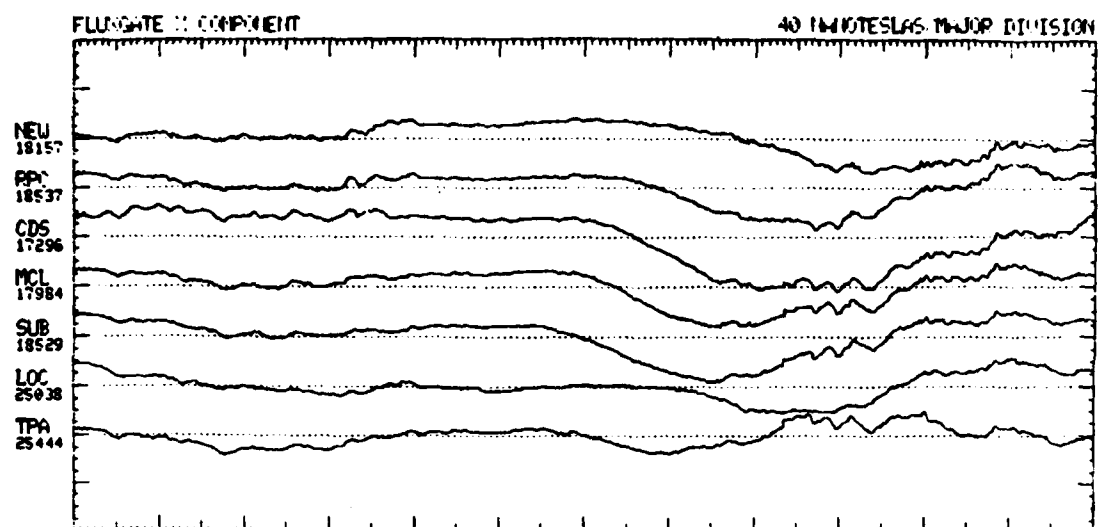


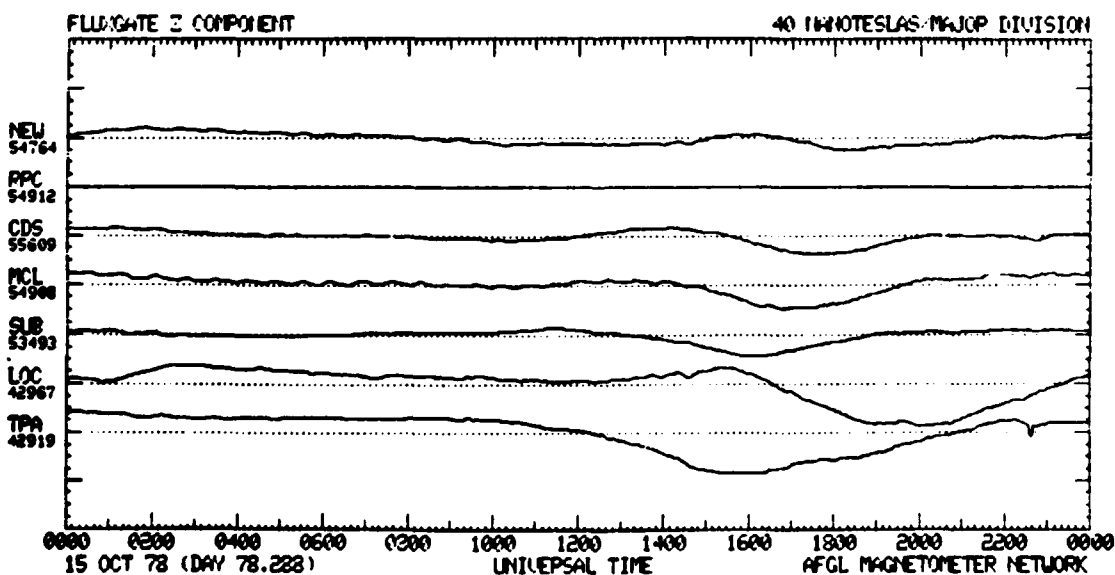
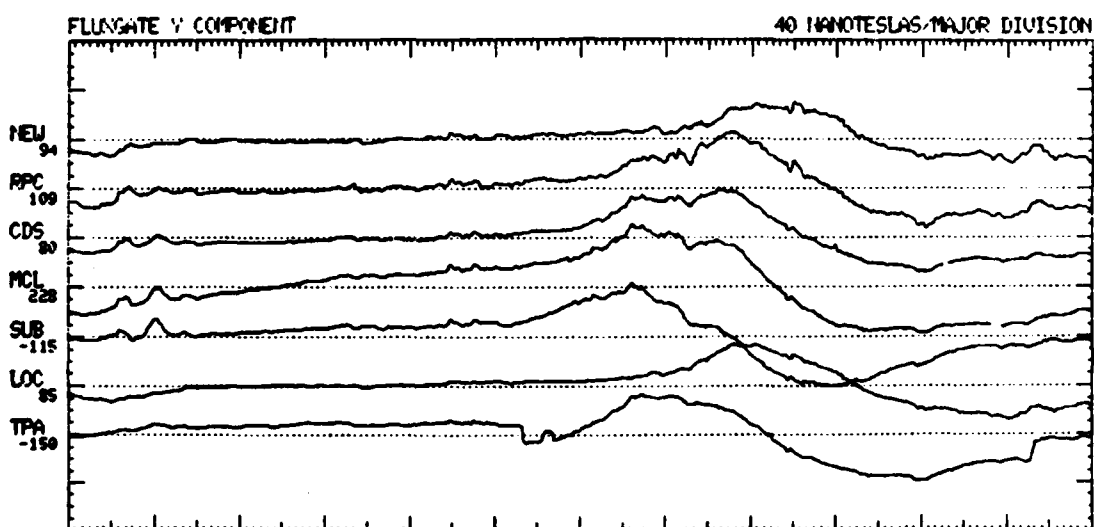
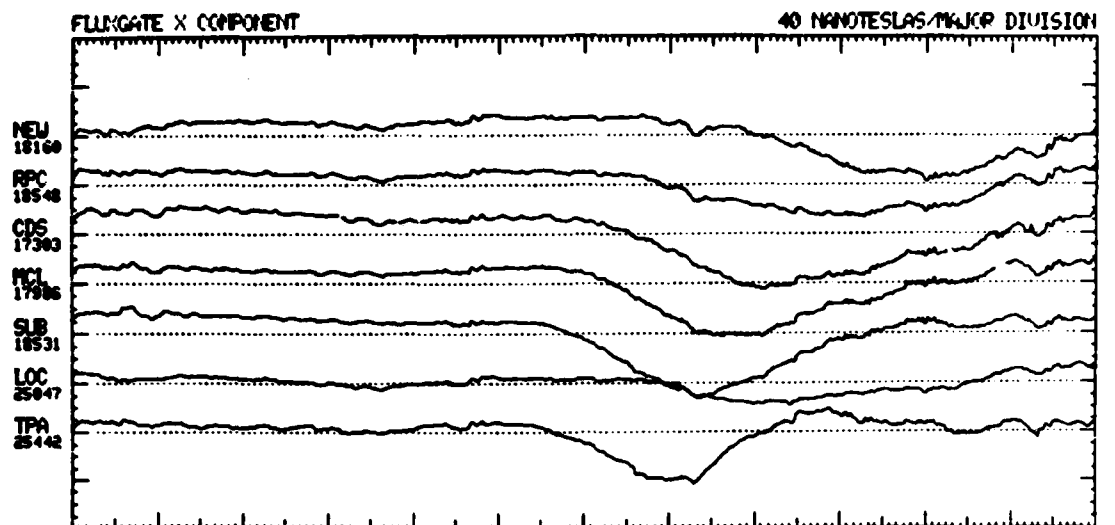


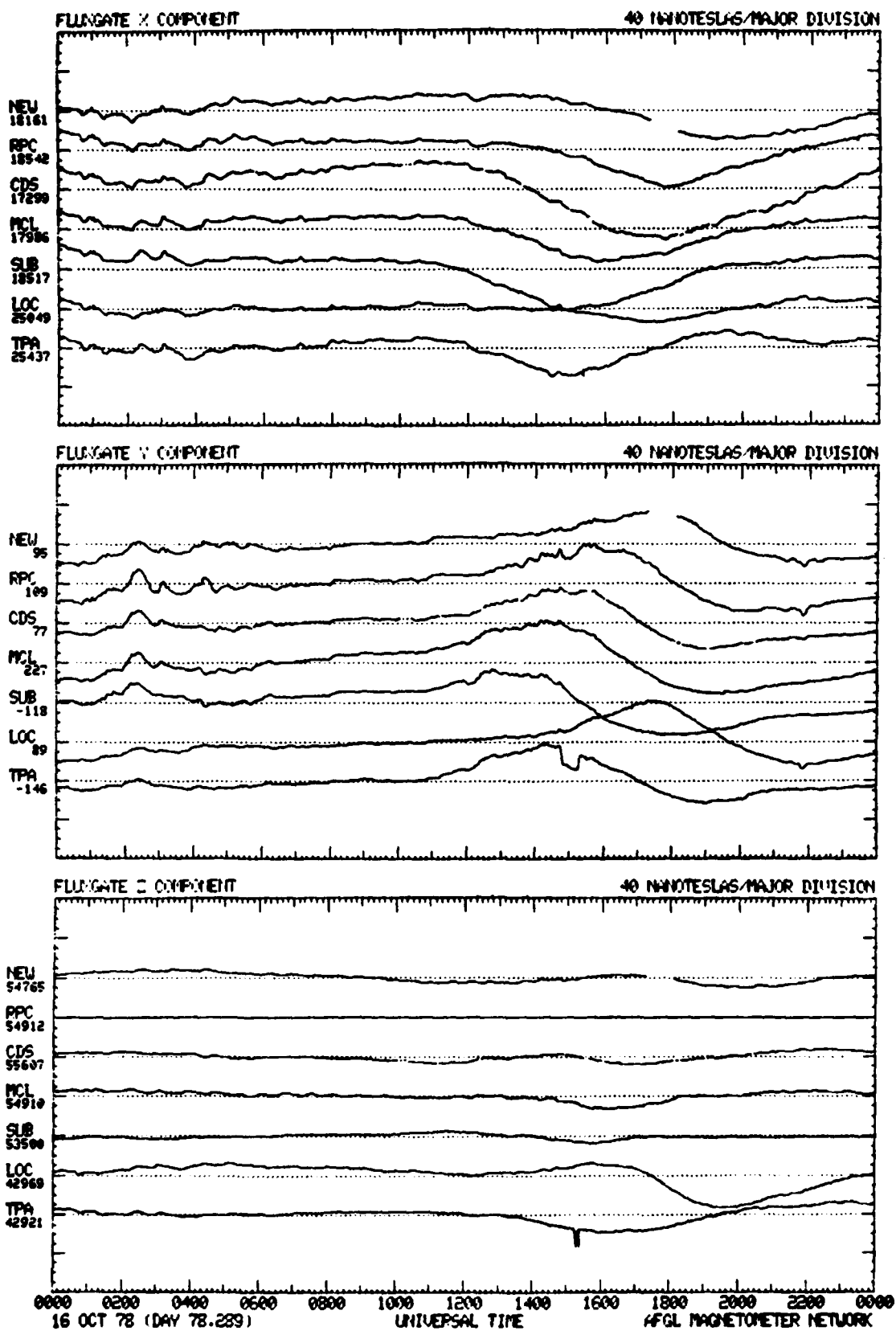


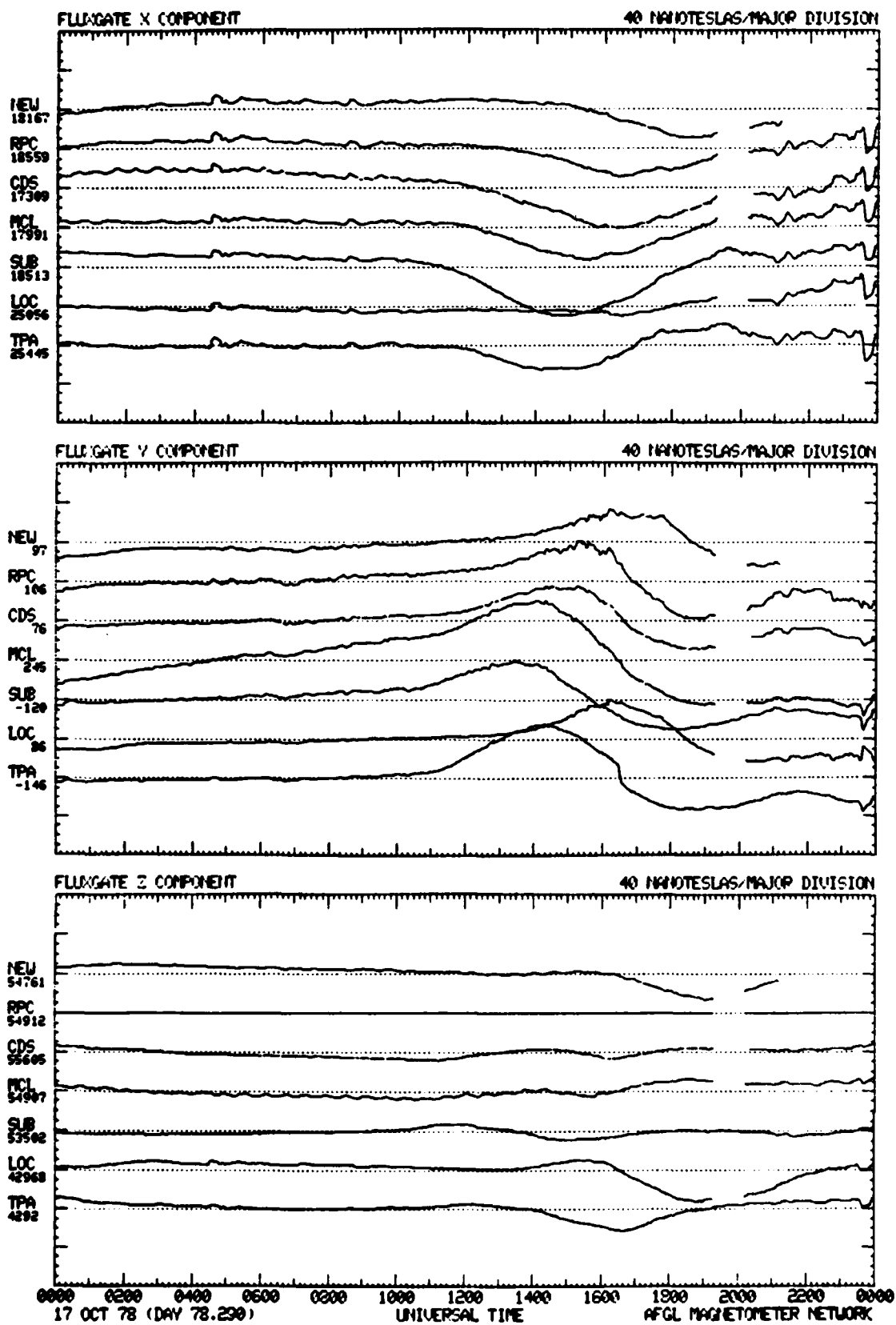


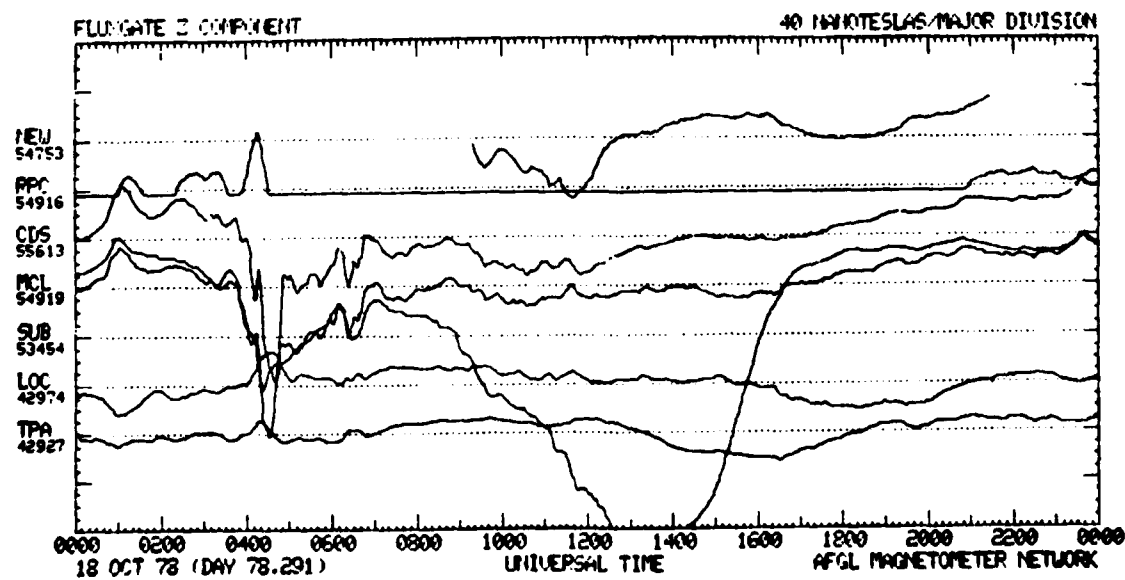
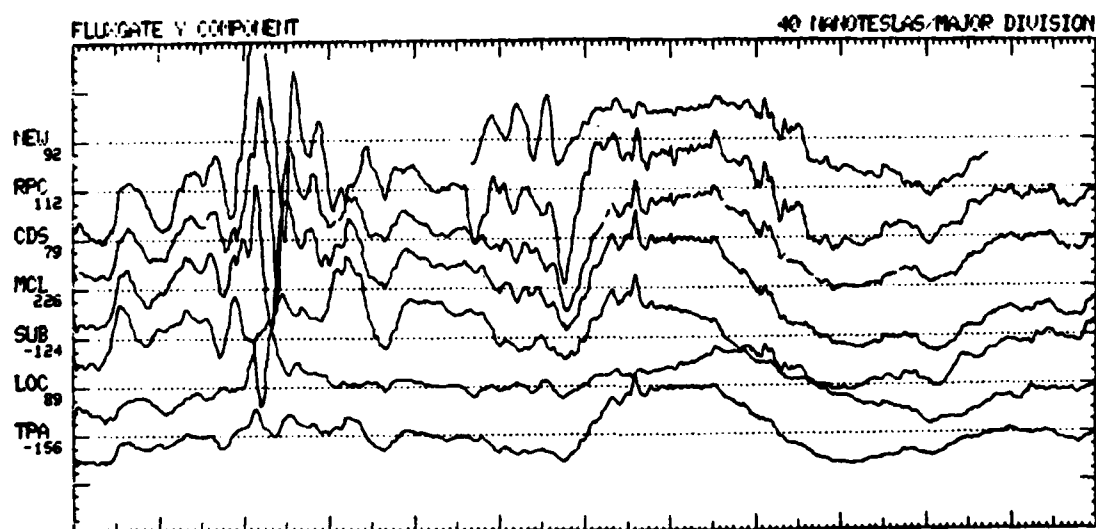
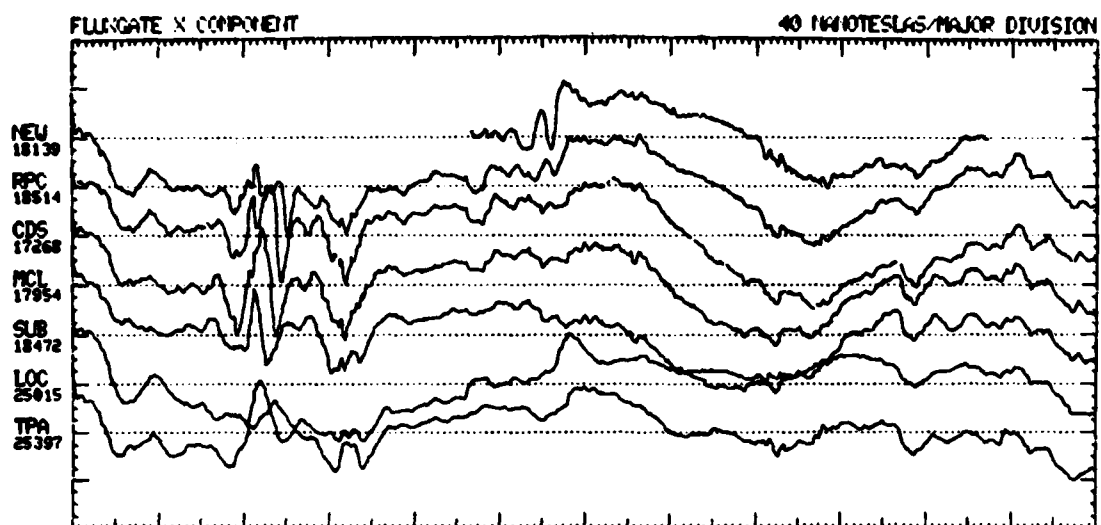


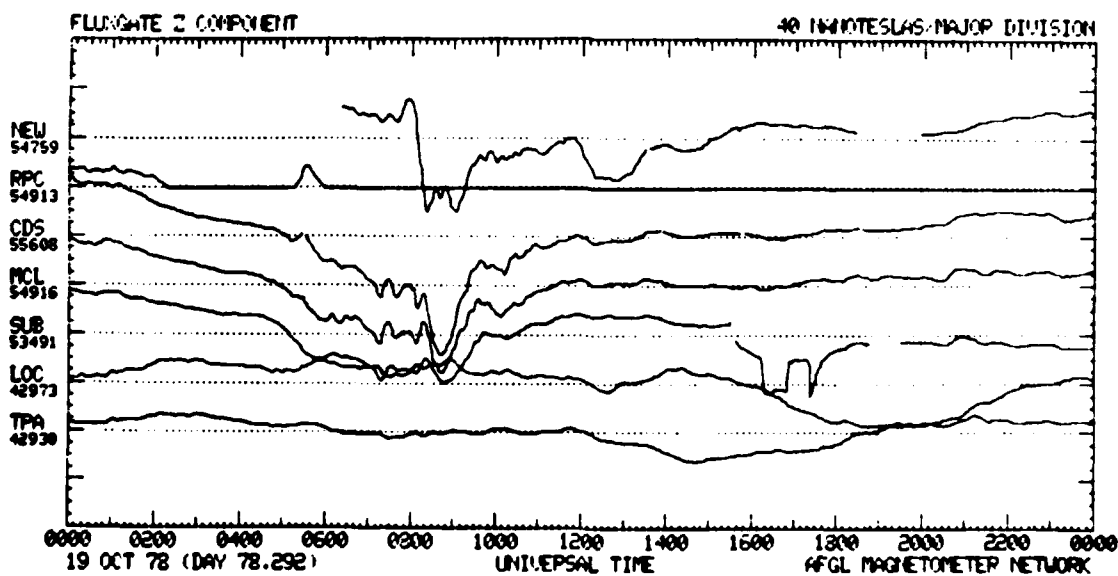
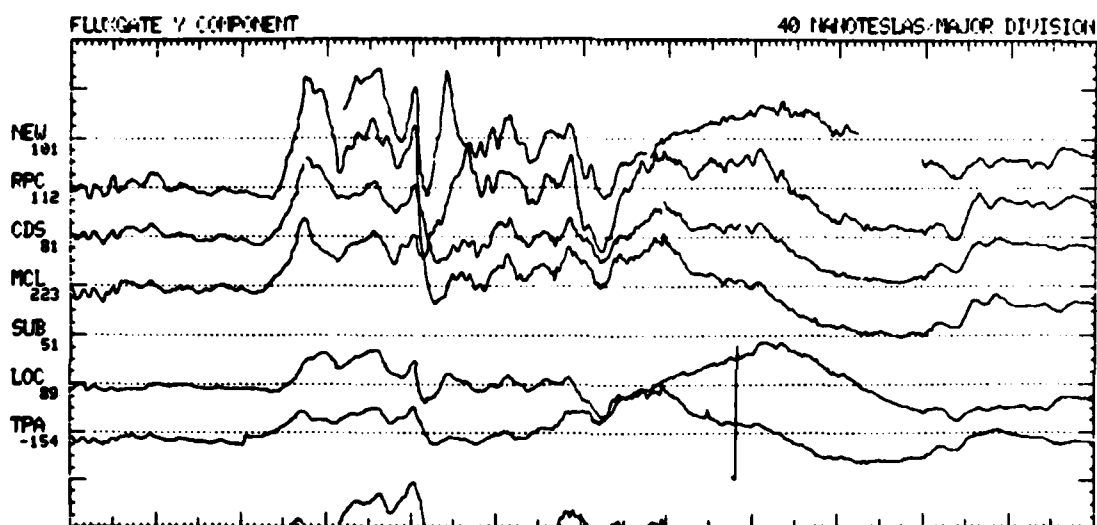
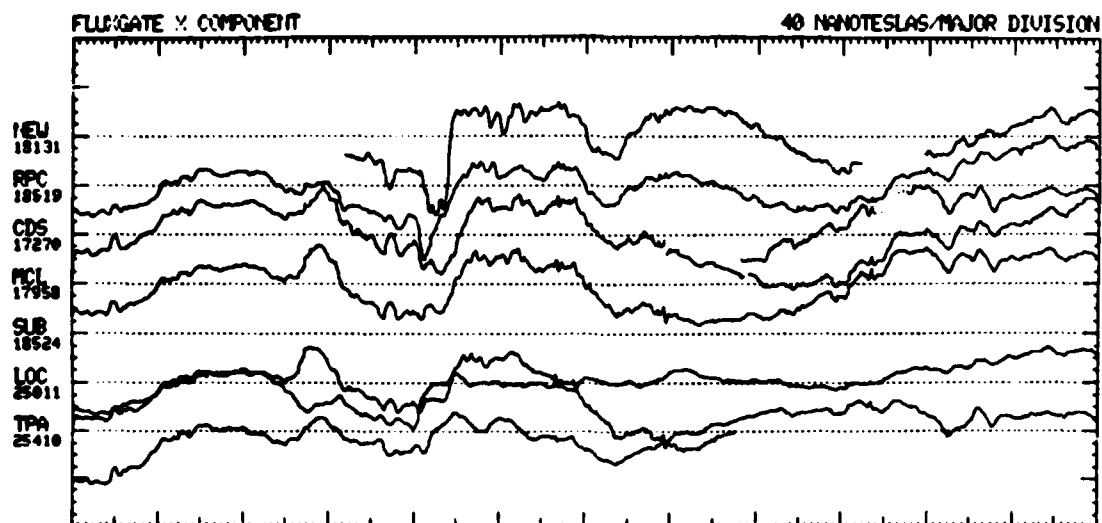


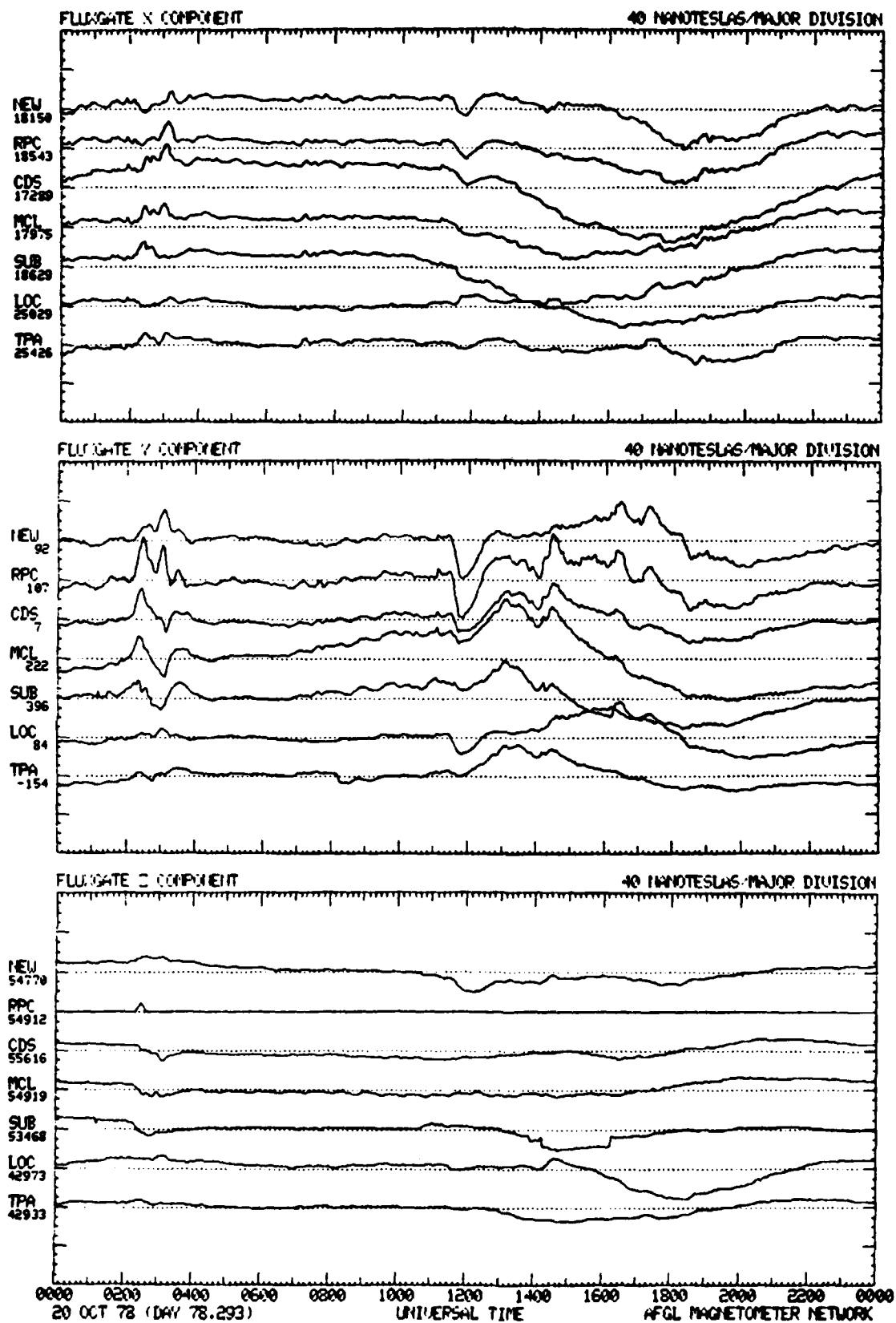


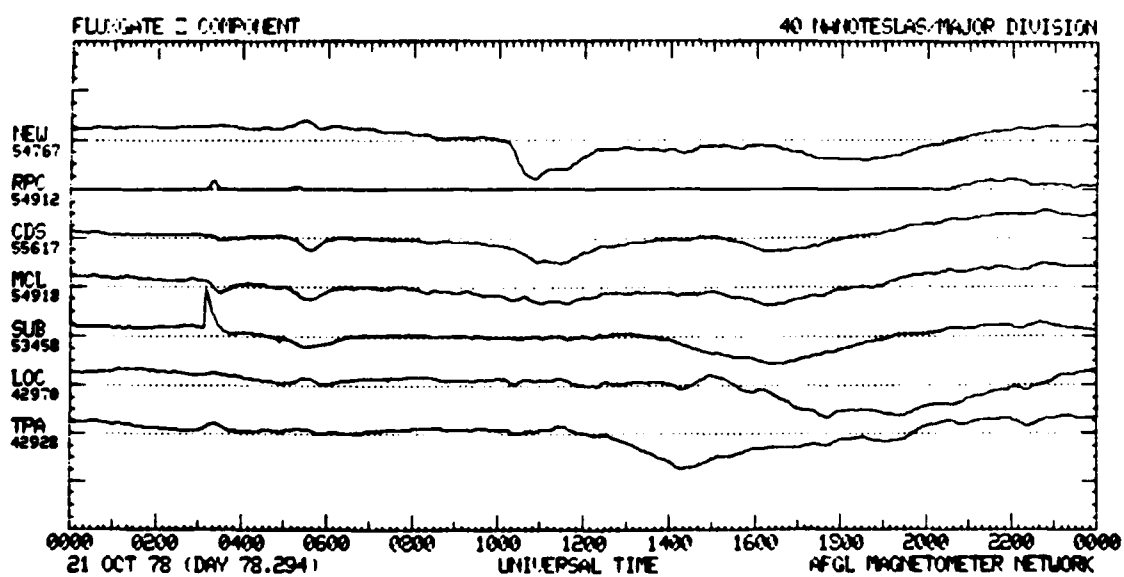
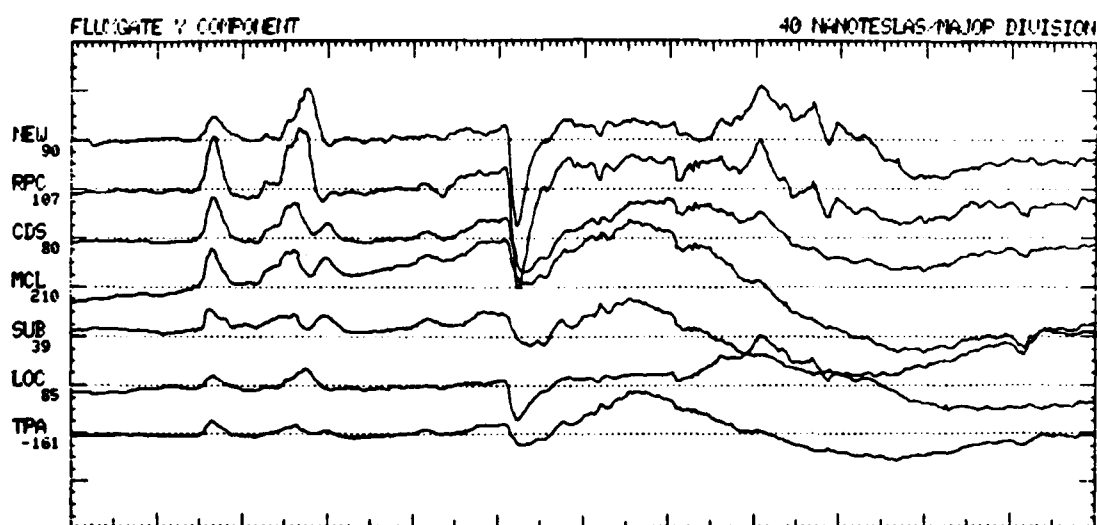
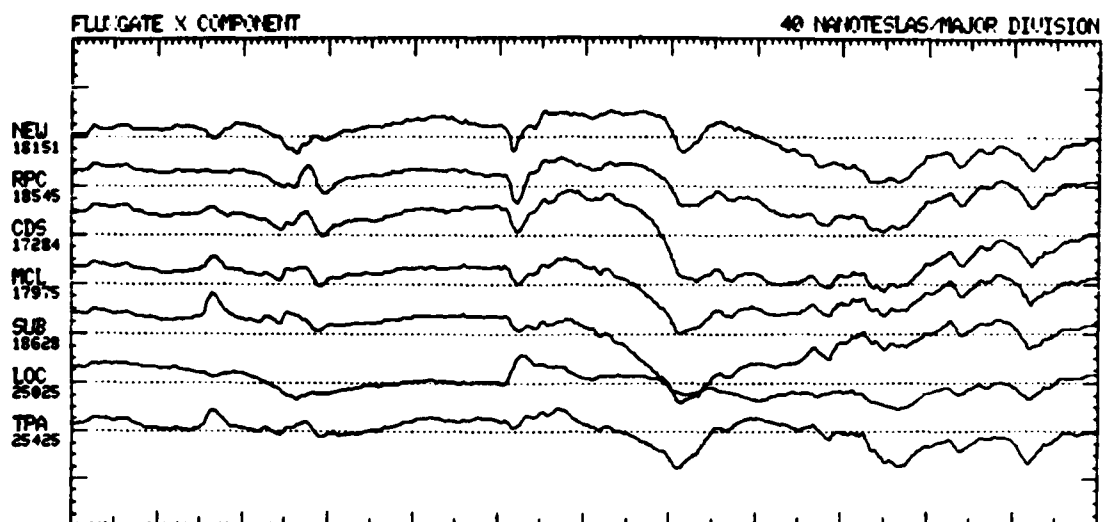


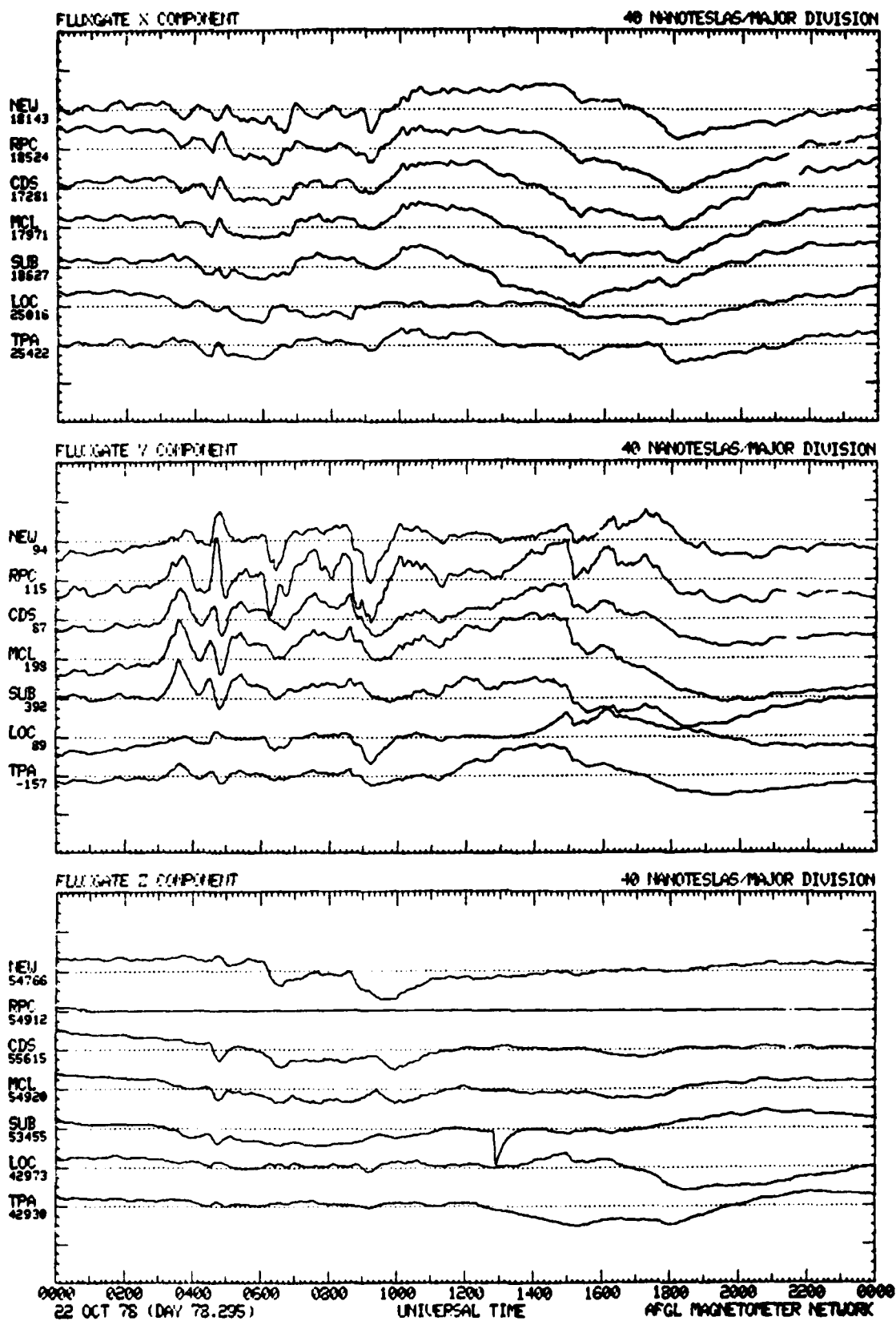


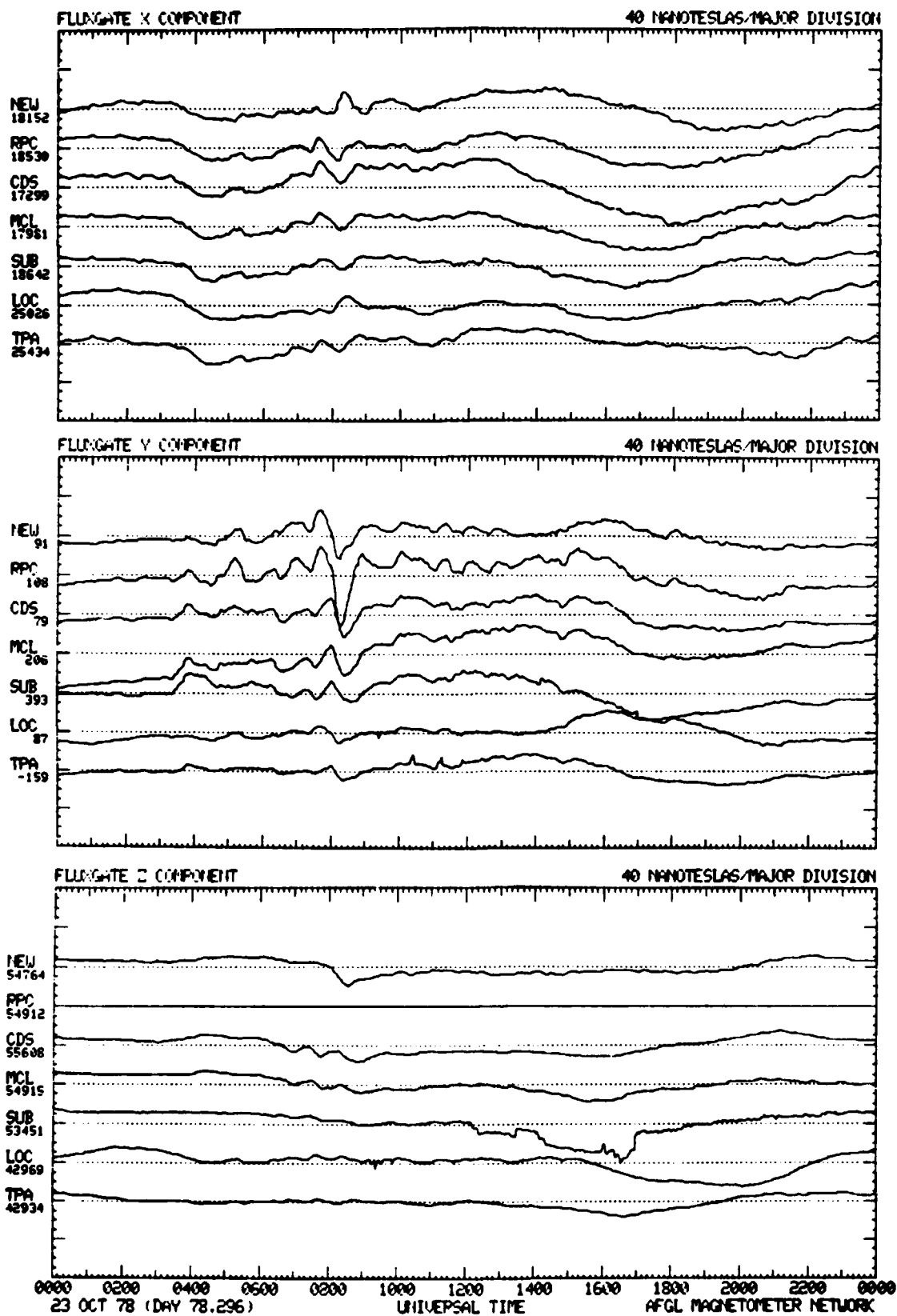


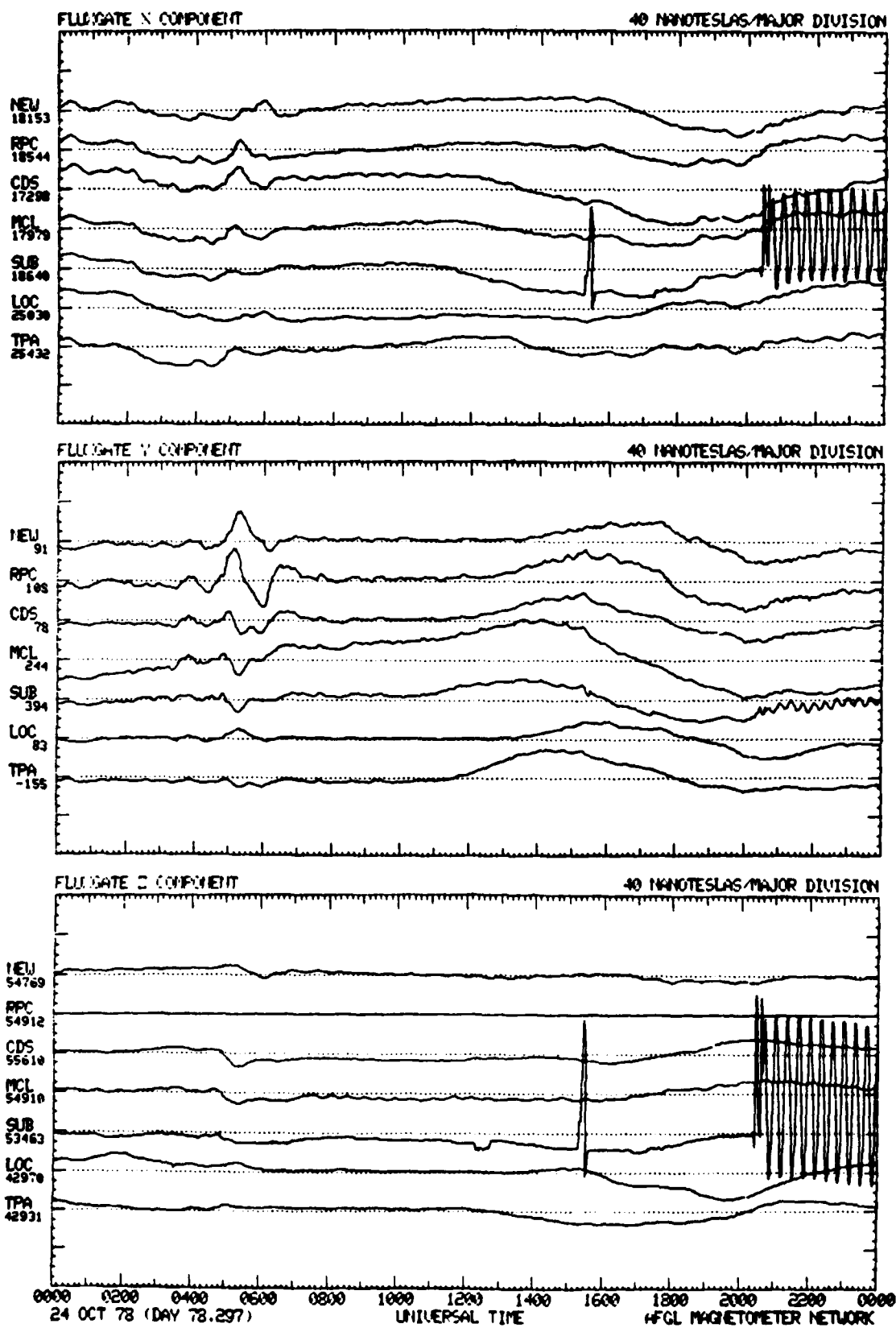








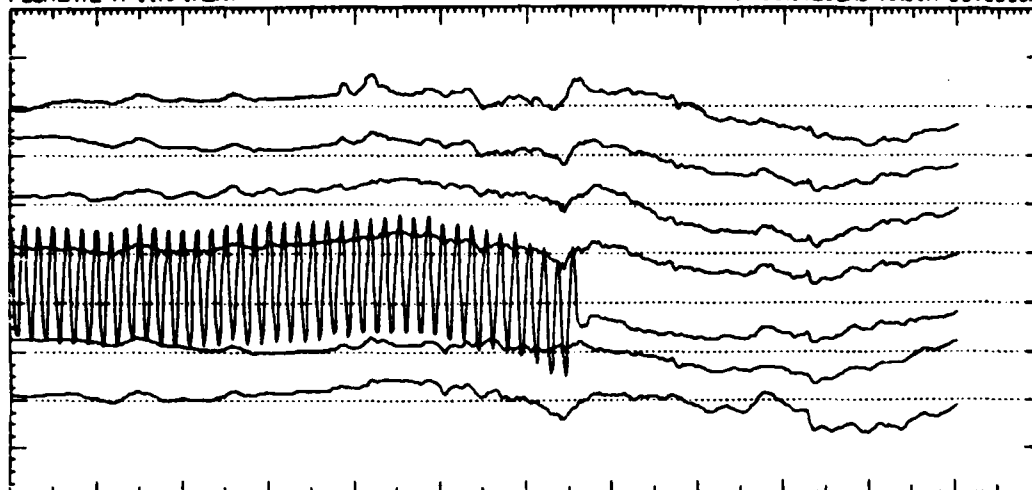




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

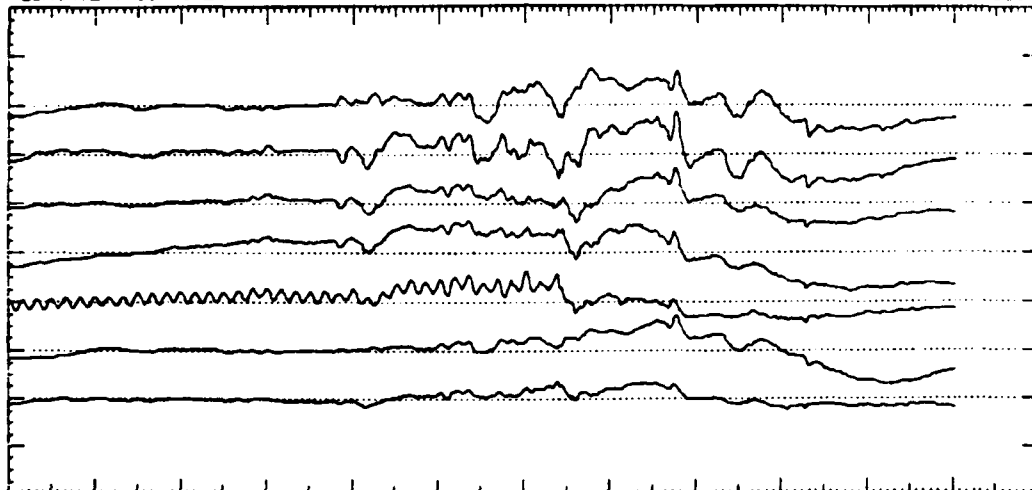
NEW
18162
RPC
18543
CDS
17304
MCL
1799
SUB
18655
LOC
25044
TPA
25441



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

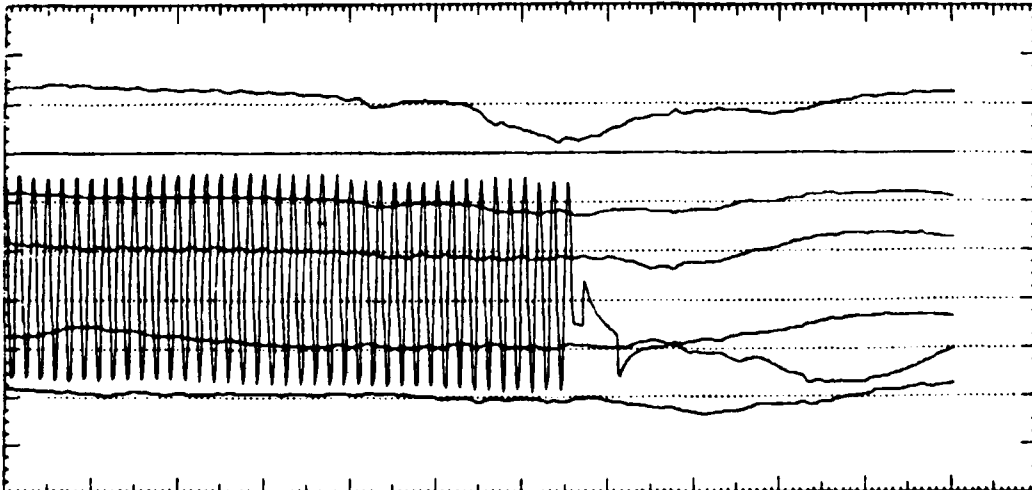
NEW
89
RPC
105
CDS
78
MCL
231
SUB
395
LOC
83
TPA
-159



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54754
RPC
54912
CDS
55608
MCL
54909
SUB
53472
LOC
42967
TPA
42926

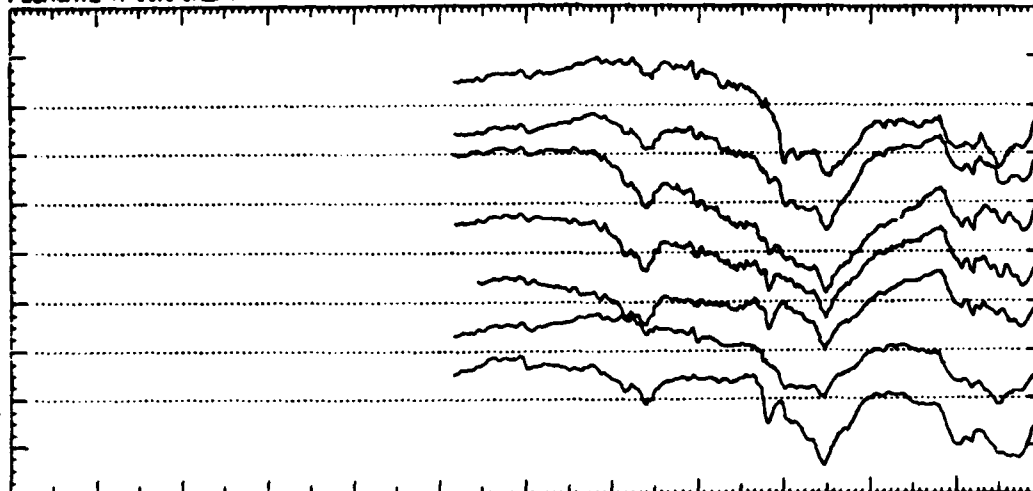


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25 OCT 78 (DAY 78.293) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

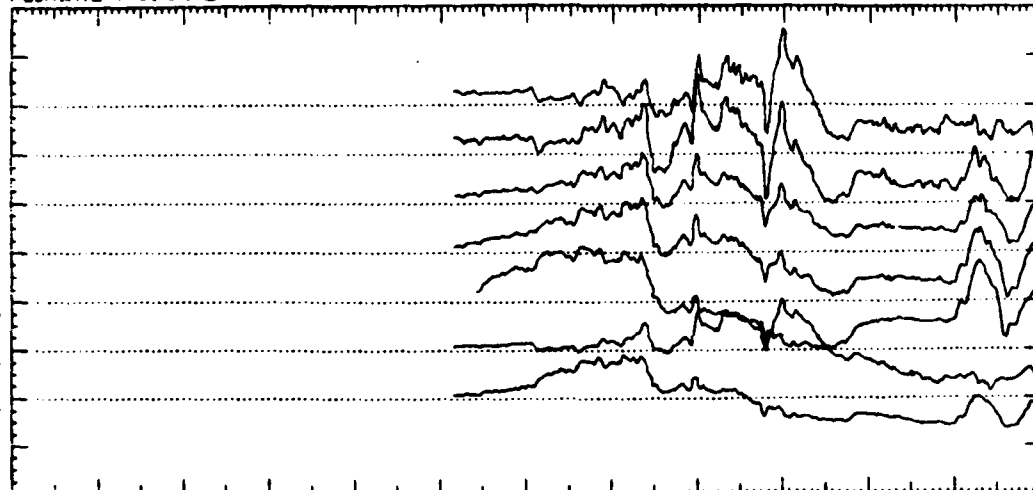
NEU
13151
RPC
18531
CDS
17290
MCL
17975
SUB
18638
LOC
25037
TPA
25428



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

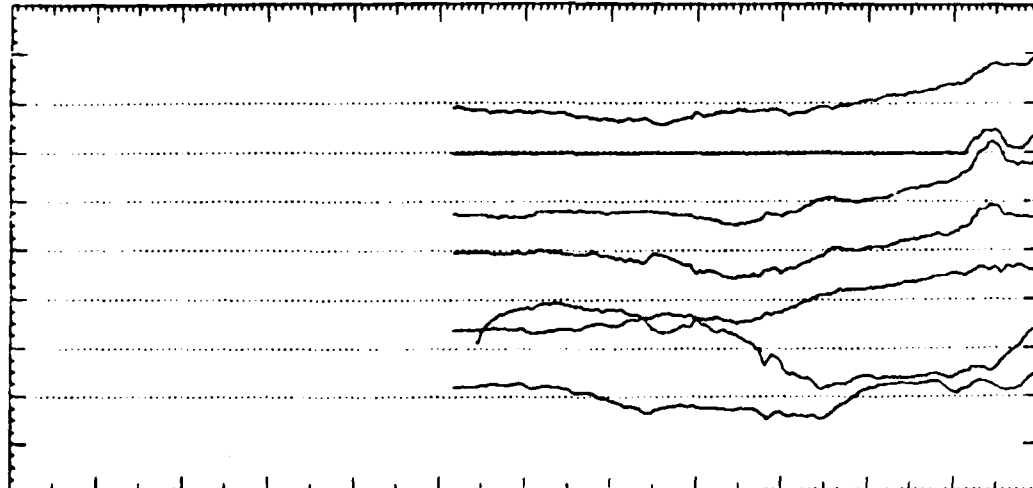
NEU
83
RPC
110
CDS
83
MCL
220
SUB
393
LOC
88
TPA
-154



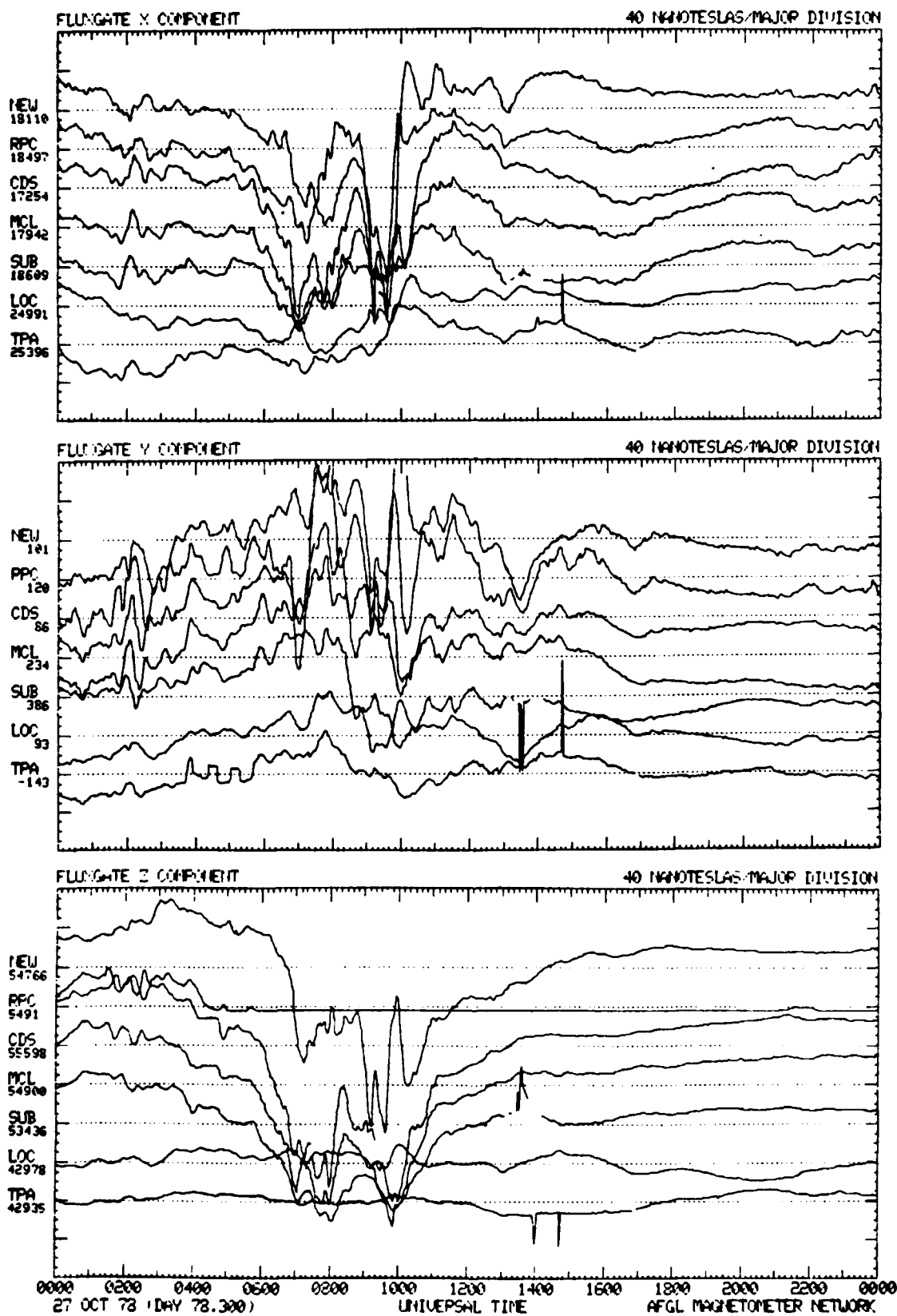
FLUXGATE Z COMPONENT

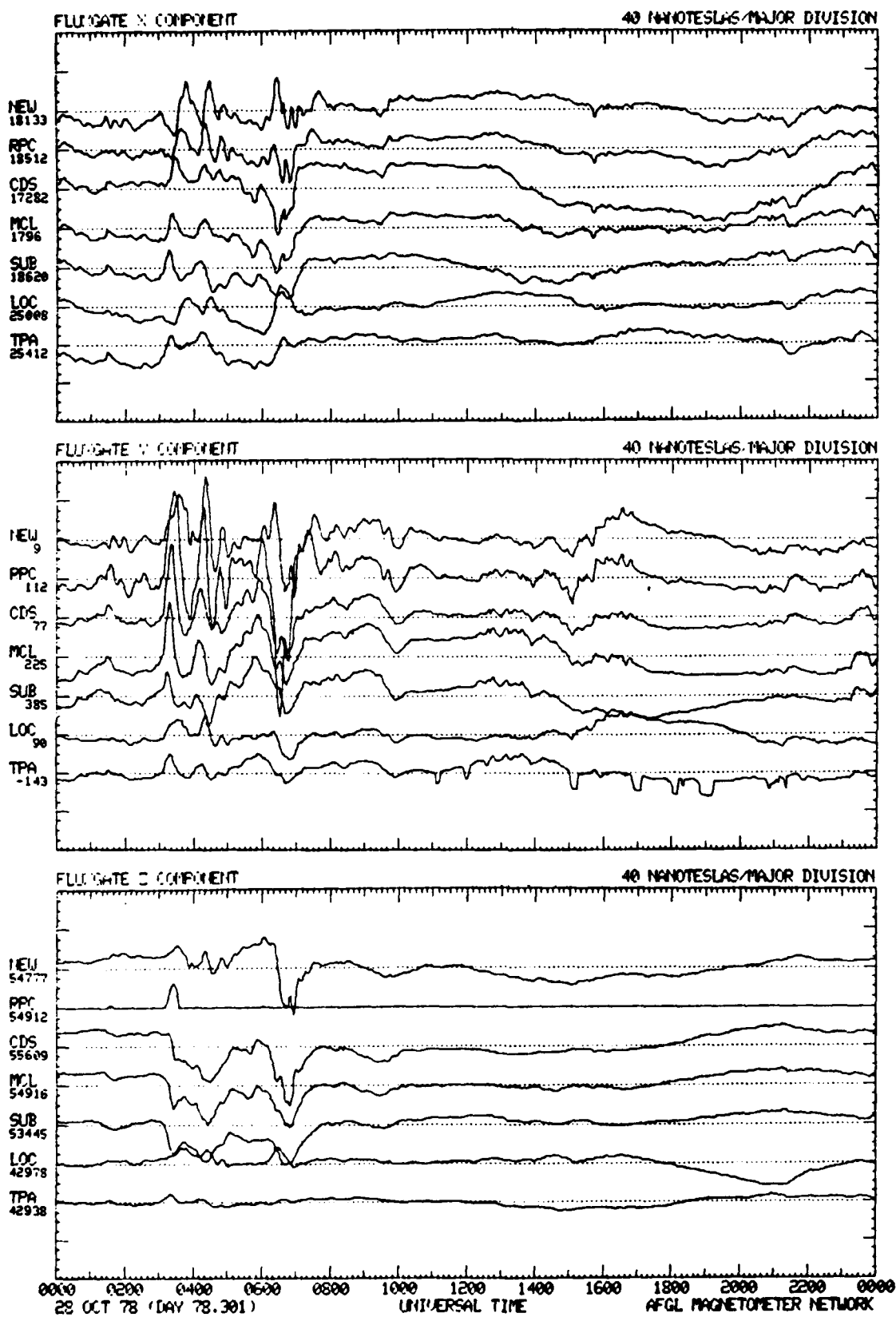
40 NANOTESLAS/MAJOR DIVISION

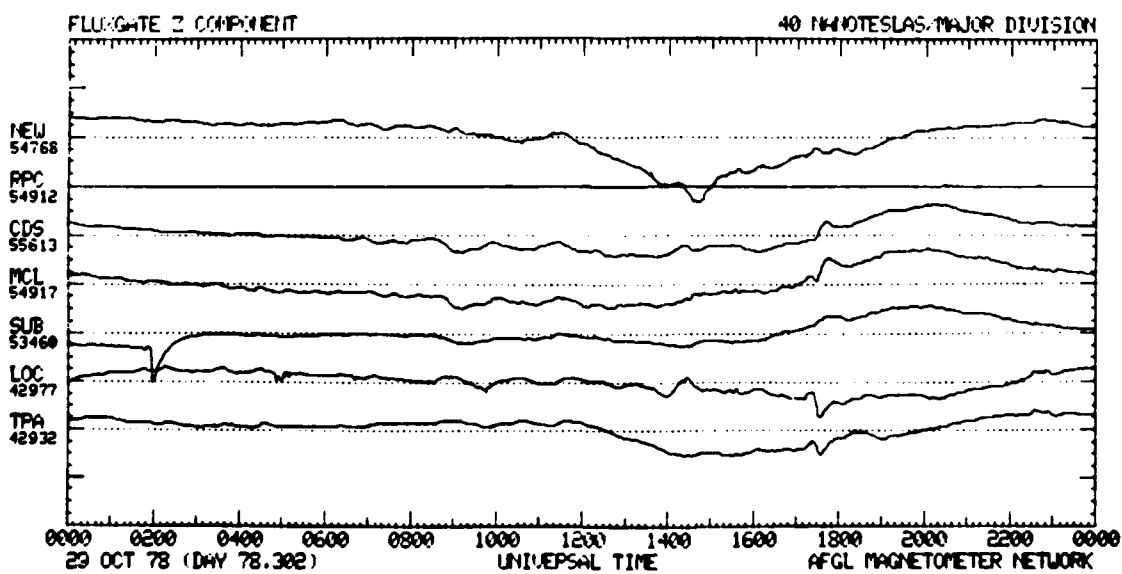
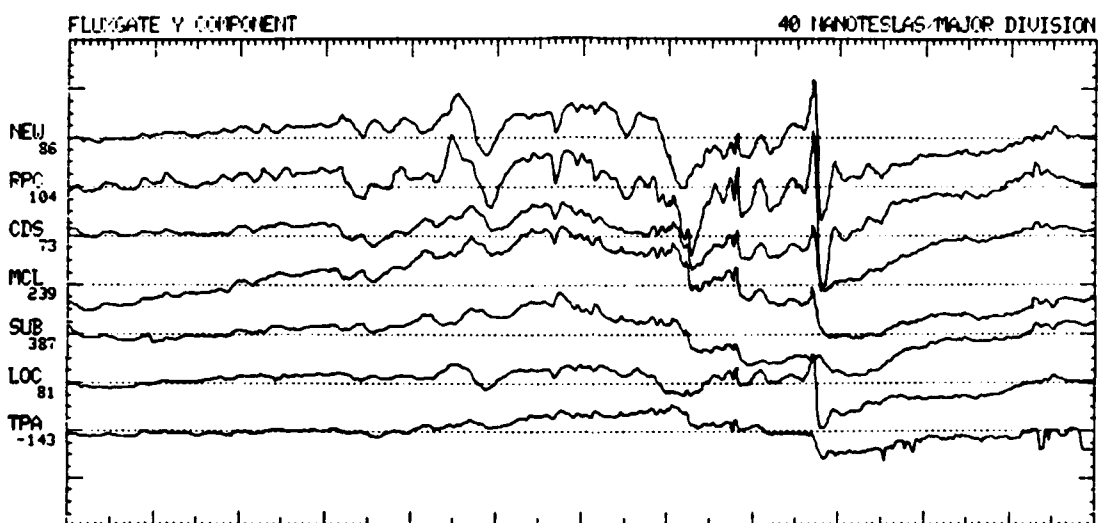
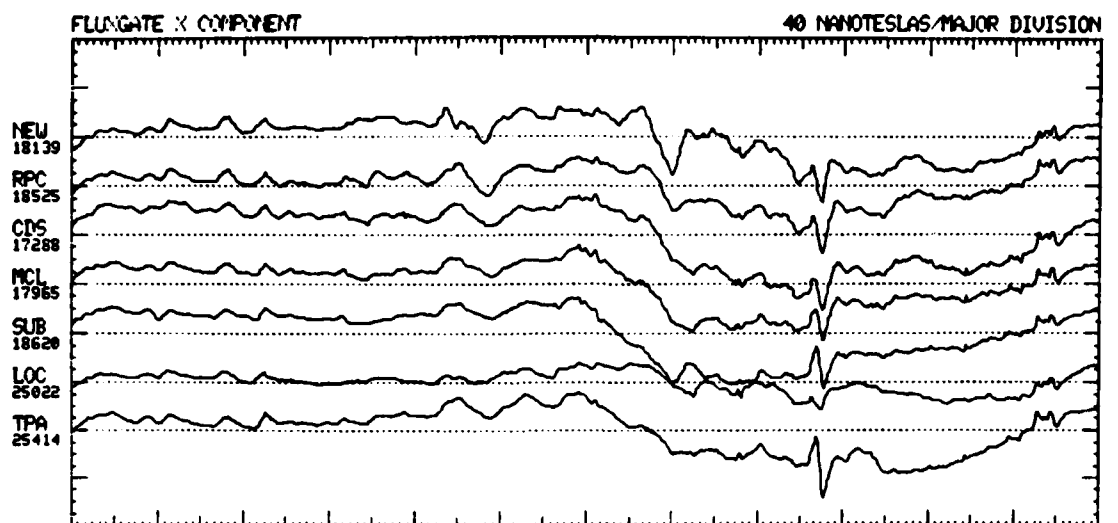
NEU
54759
RPC
54913
CDS
55613
MCL
54915
SUB
53450
LOC
42960
TPA
42921

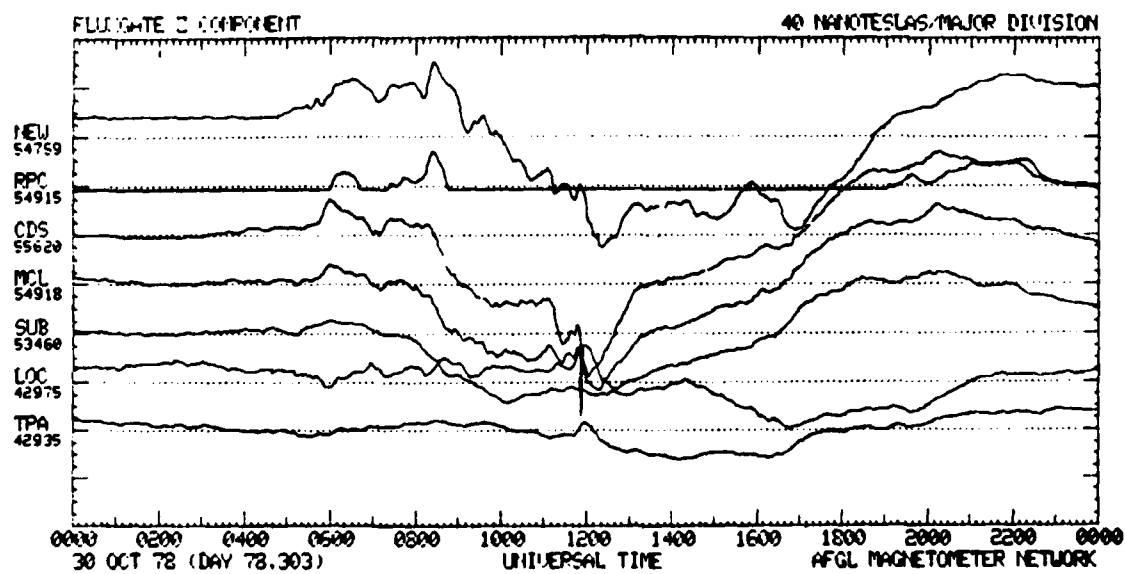
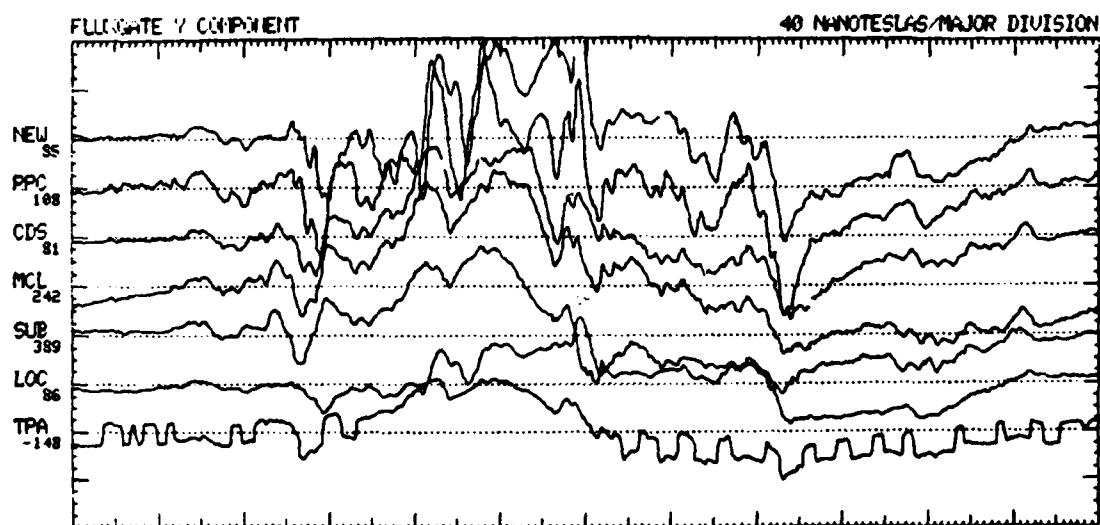
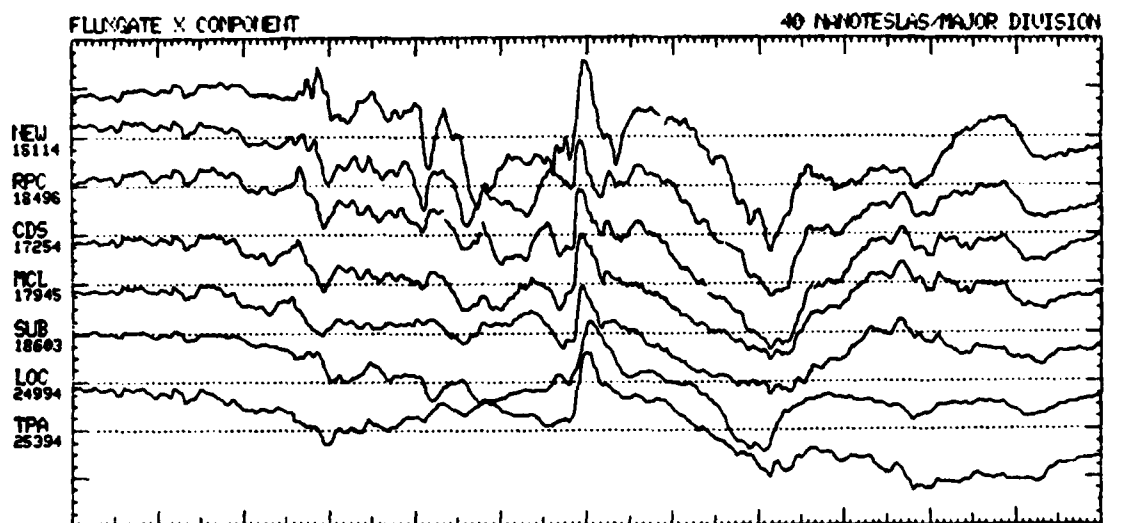


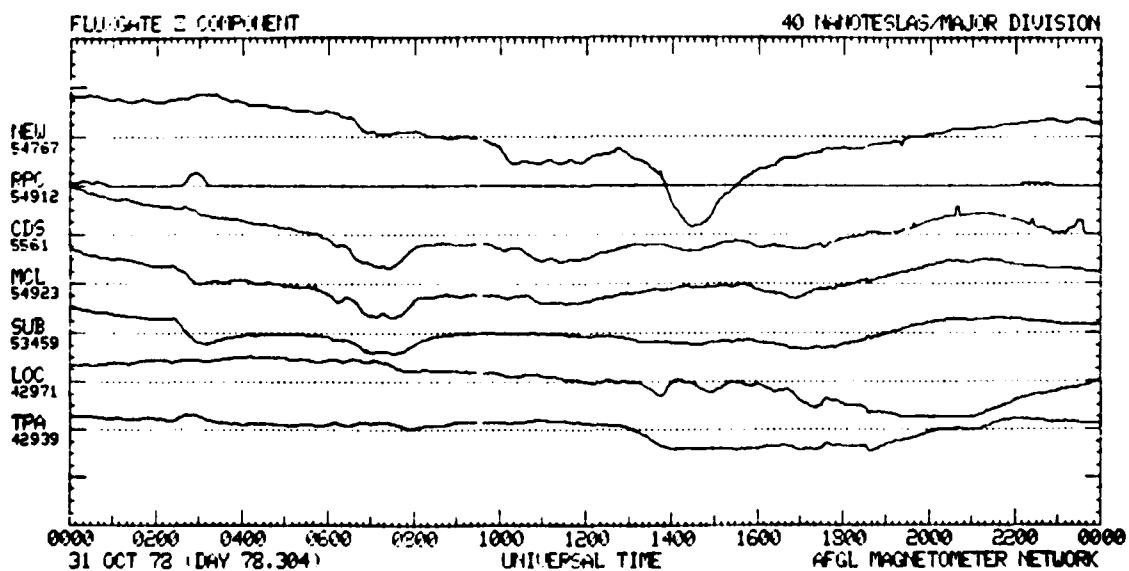
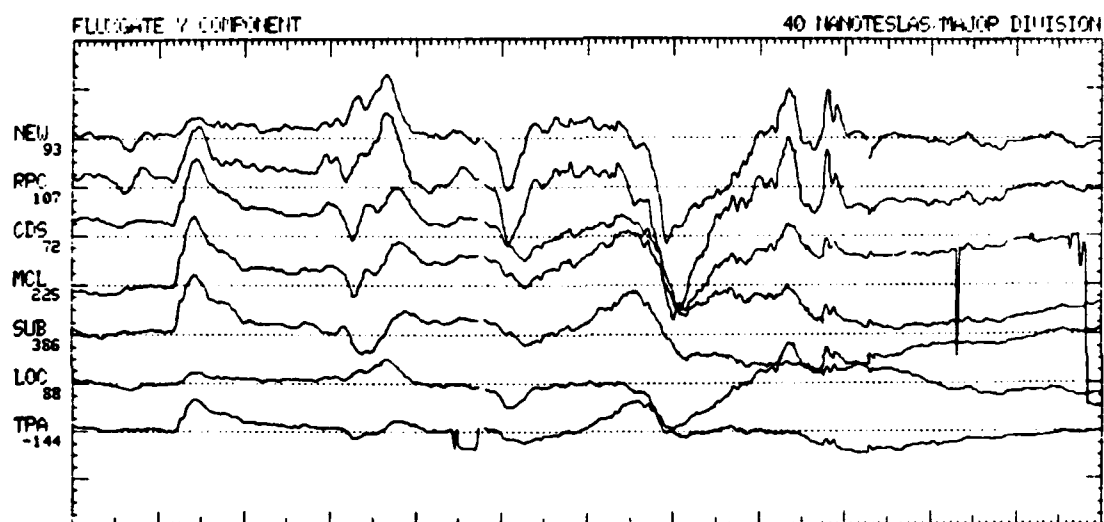
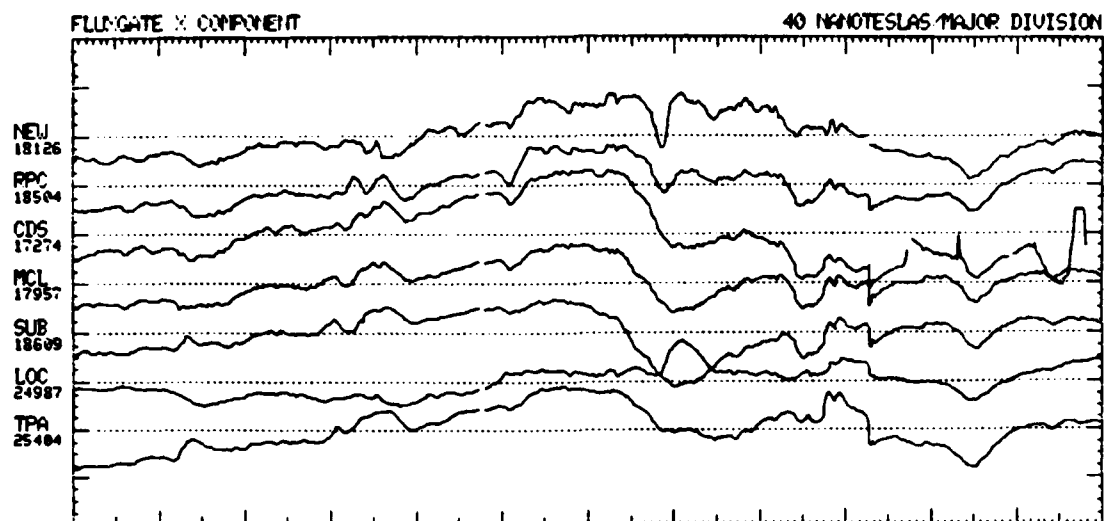
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26 OCT 78 (DAY 78.299) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

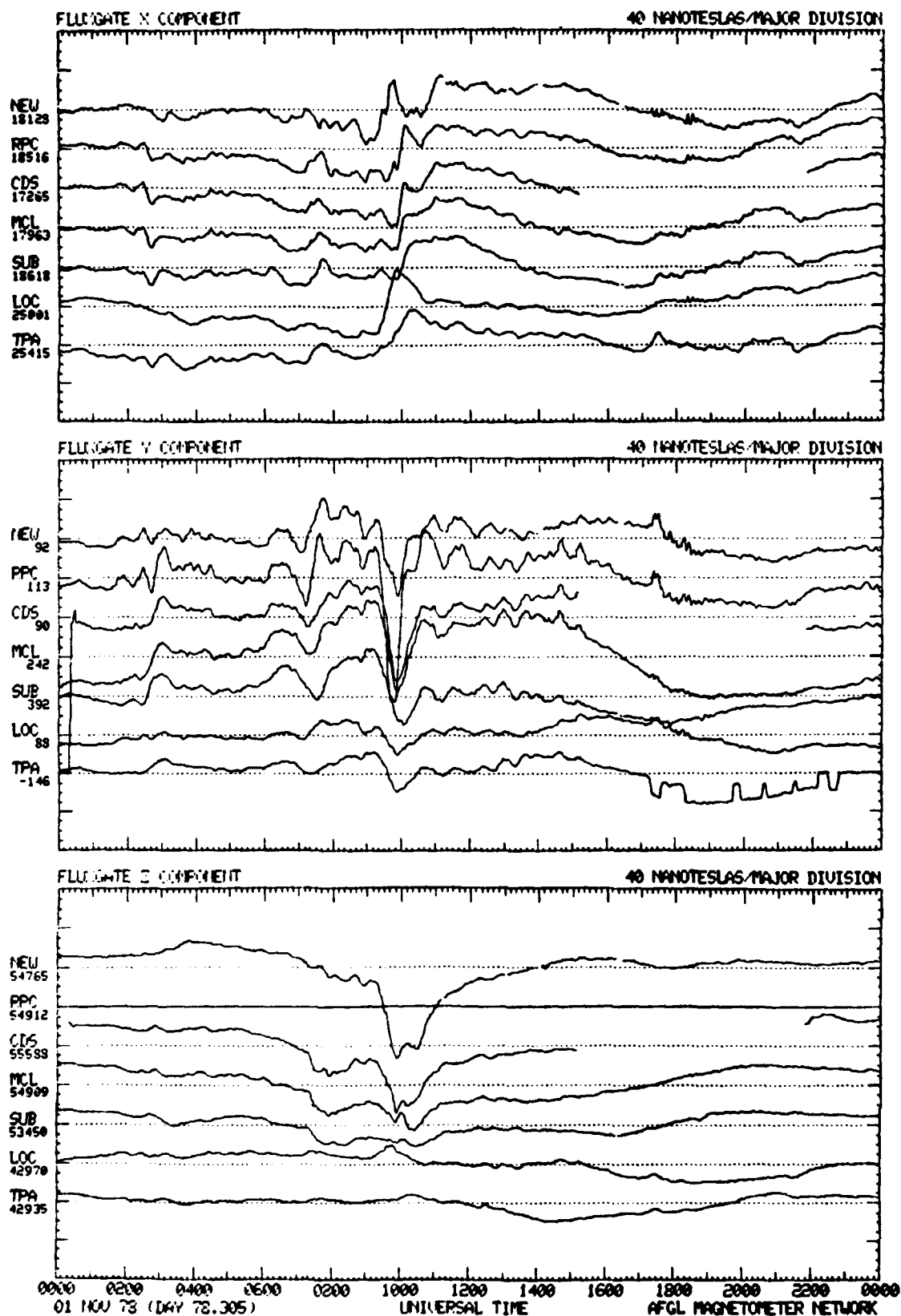


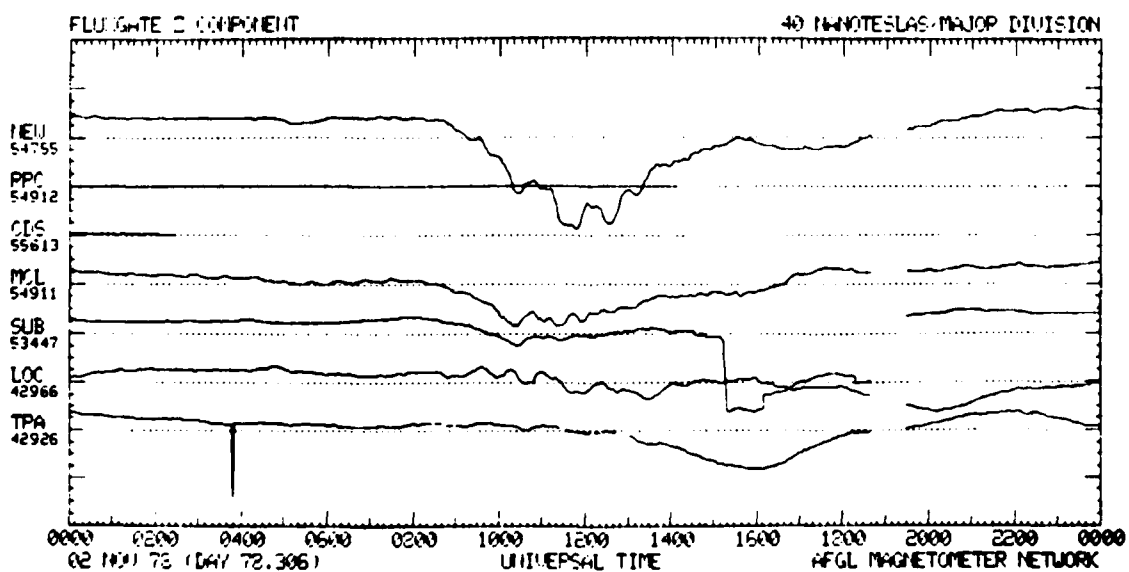
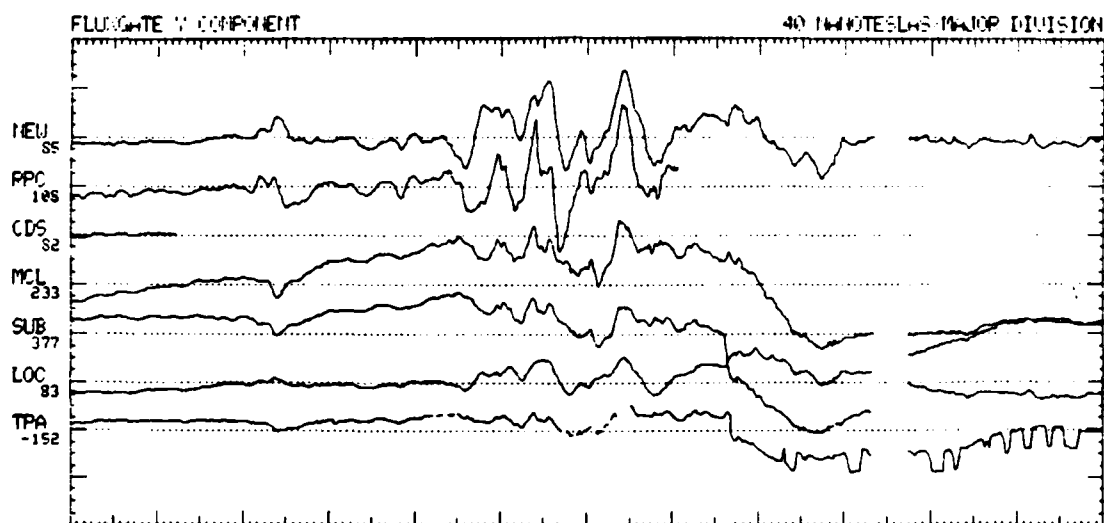
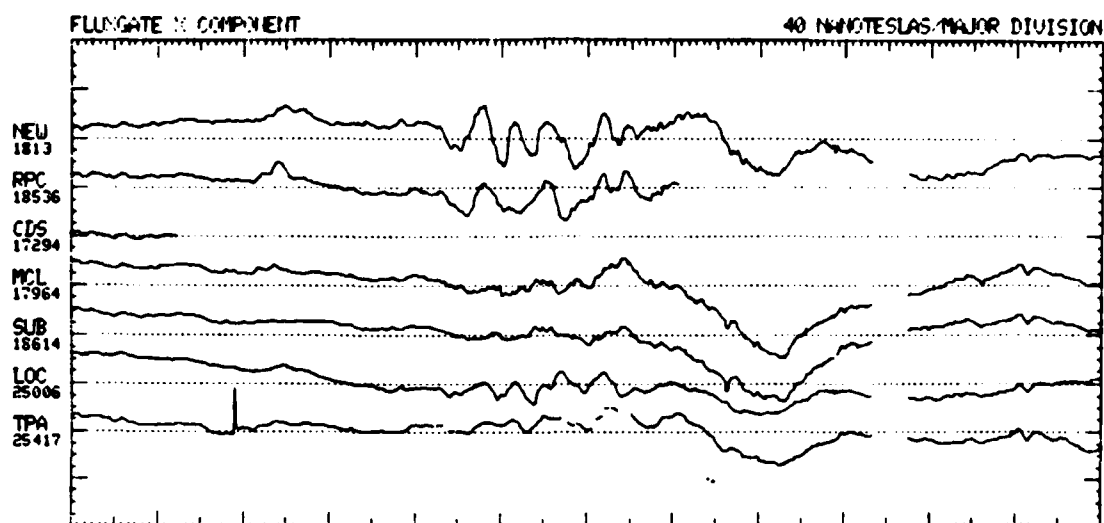








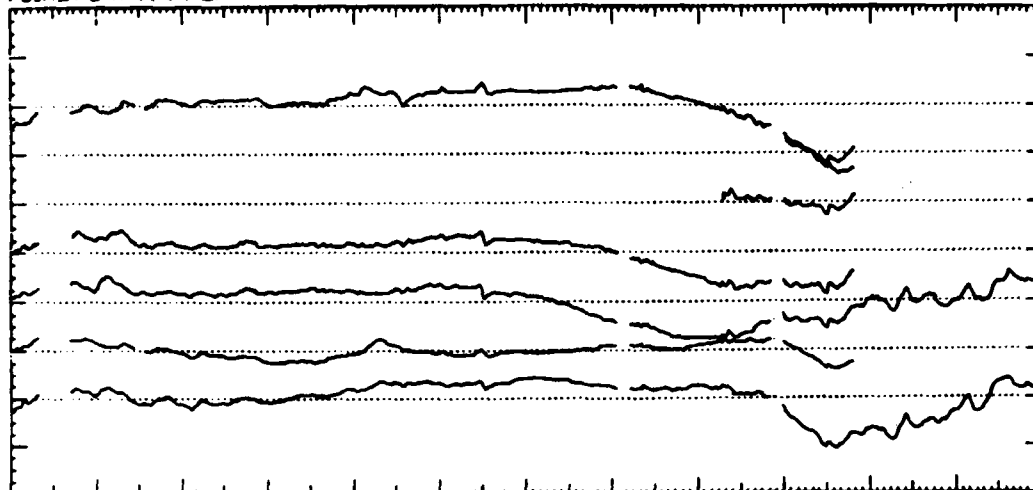




FLIGHT 1 COMPONENT

40 NANOTESLAS/MAJOR DIVISION

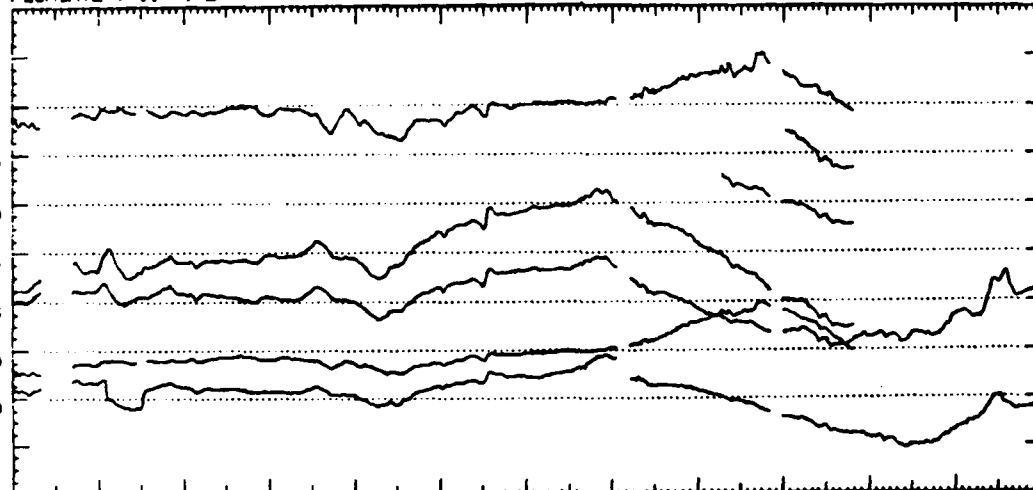
NEW
18141
PPC
18486
CDS
17241
MCL
17966
SUB
18614
LOC
25412
TPA
25412



FLIGHT 2 COMPONENT

40 NANOTESLAS/MAJOR DIVISION

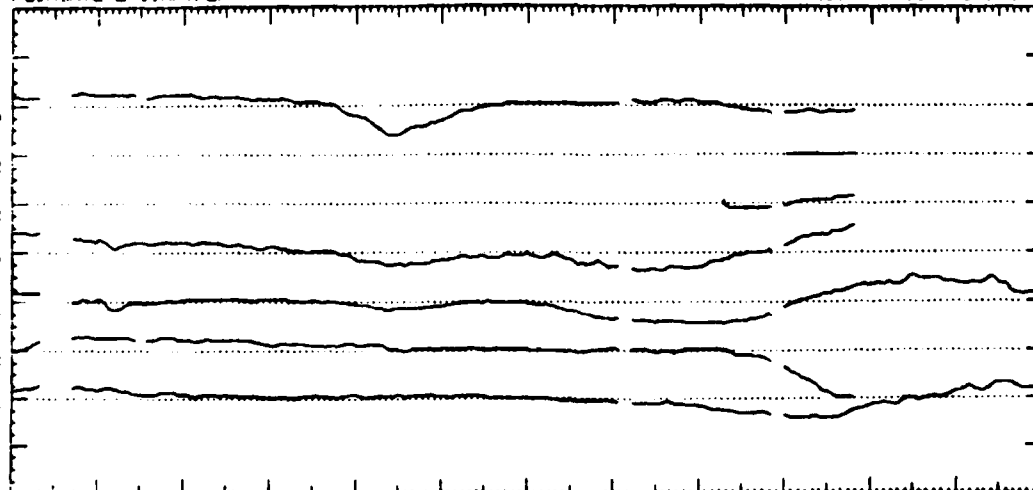
NEW
94
PPC
92
CDS
69
MCL
235
SUB
385
LOC
90
TPA
-159



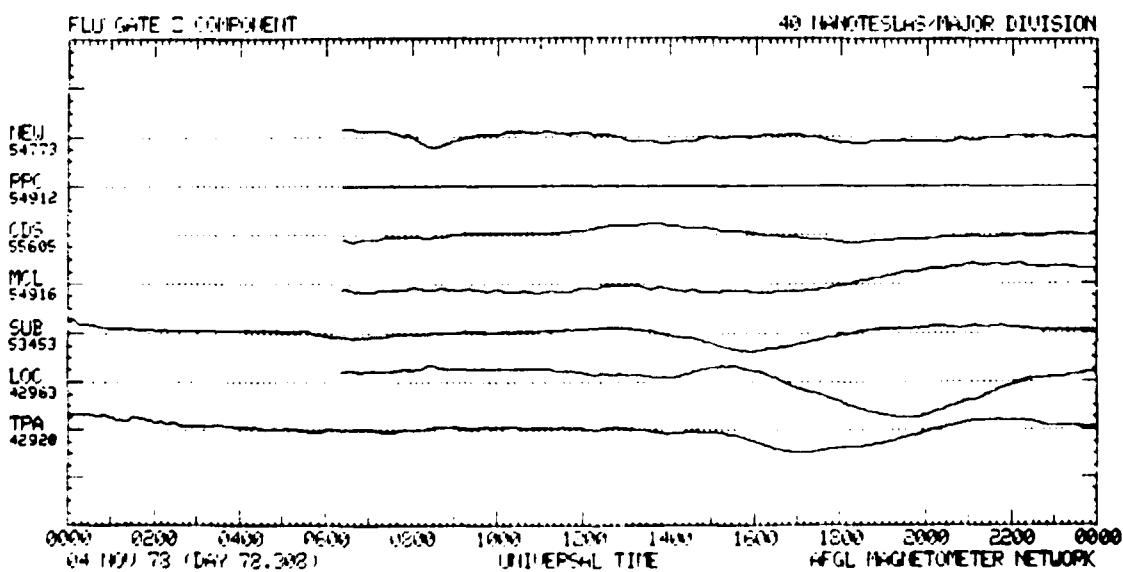
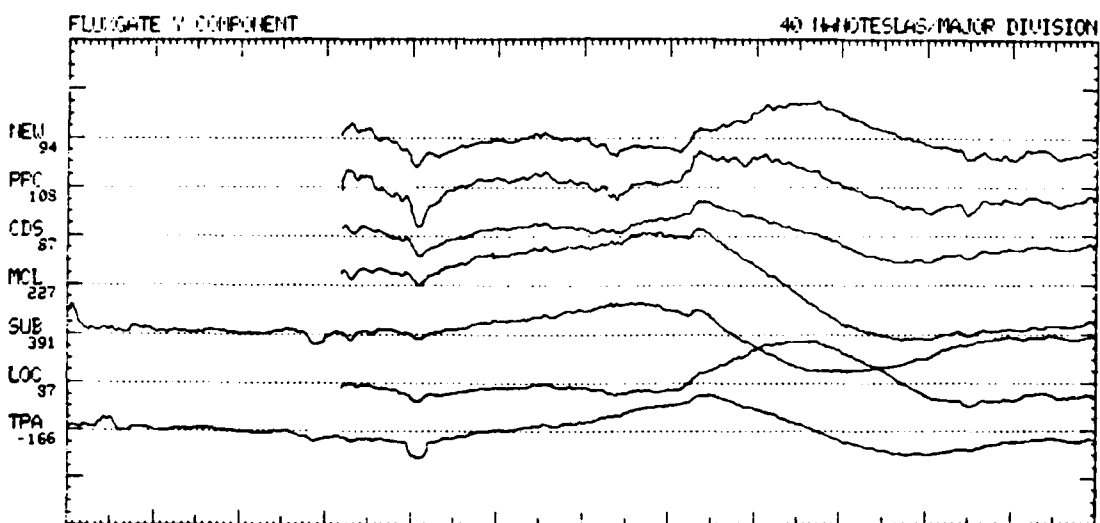
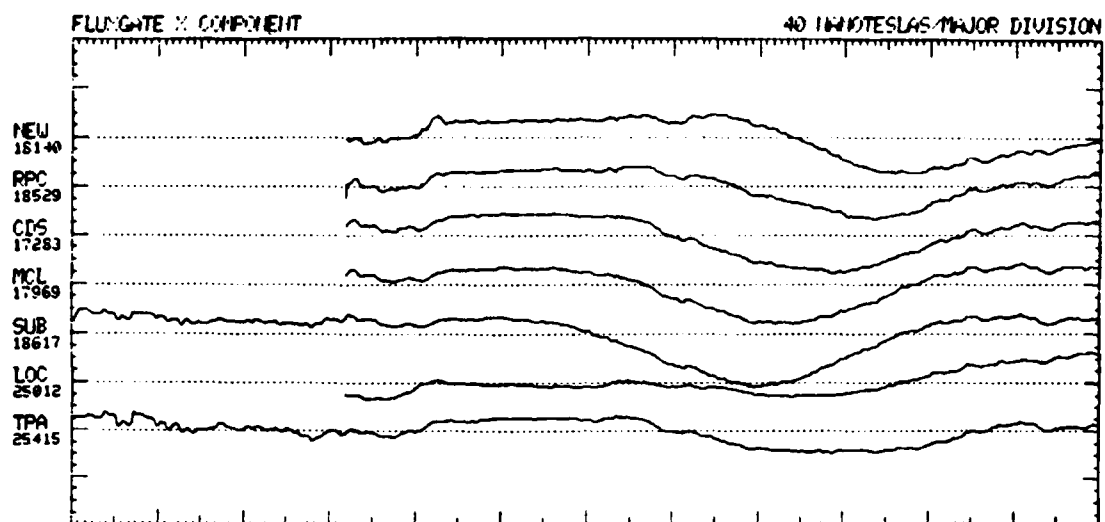
FLIGHT 3 COMPONENT

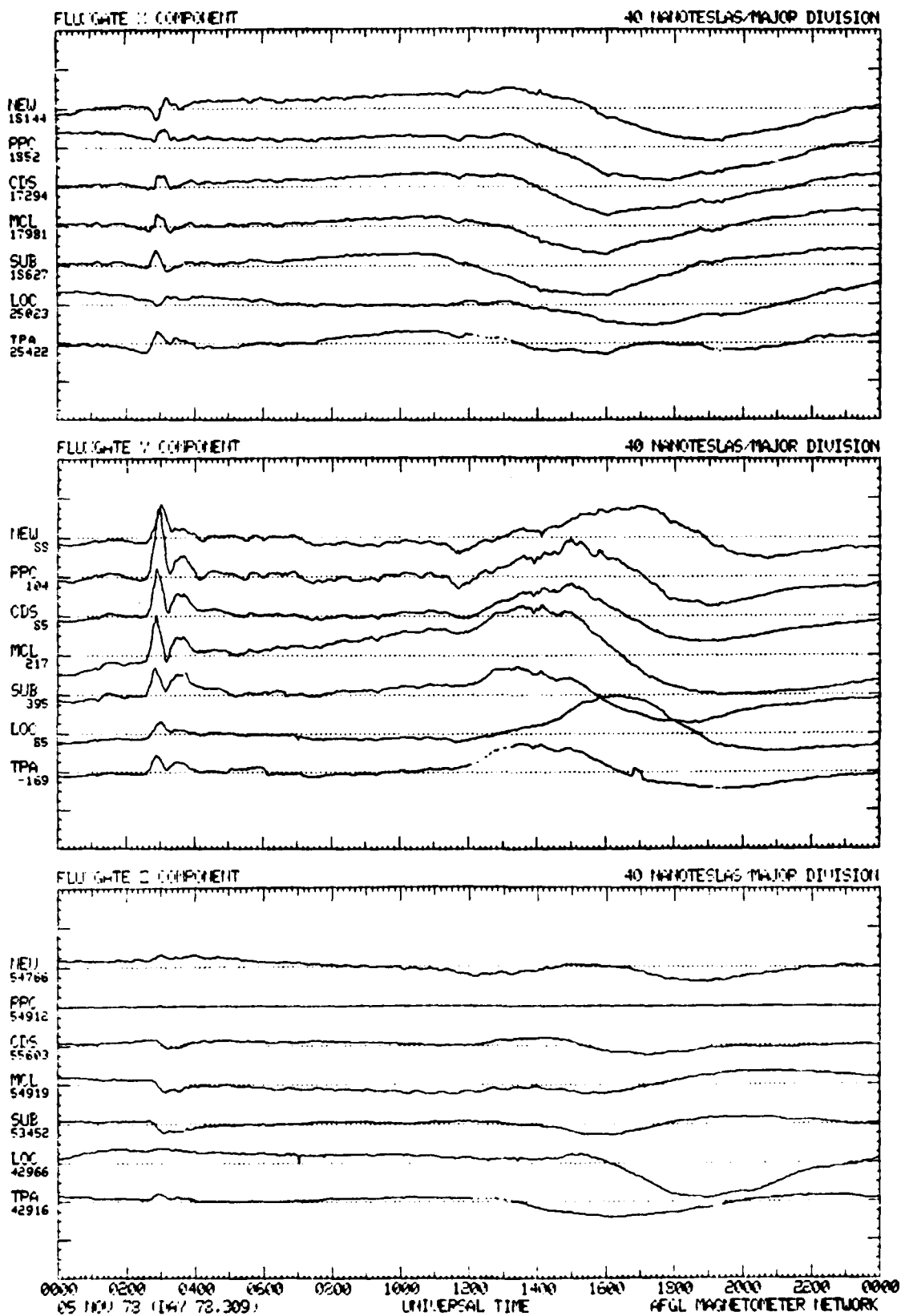
40 NANOTESLAS/MAJOR DIVISION

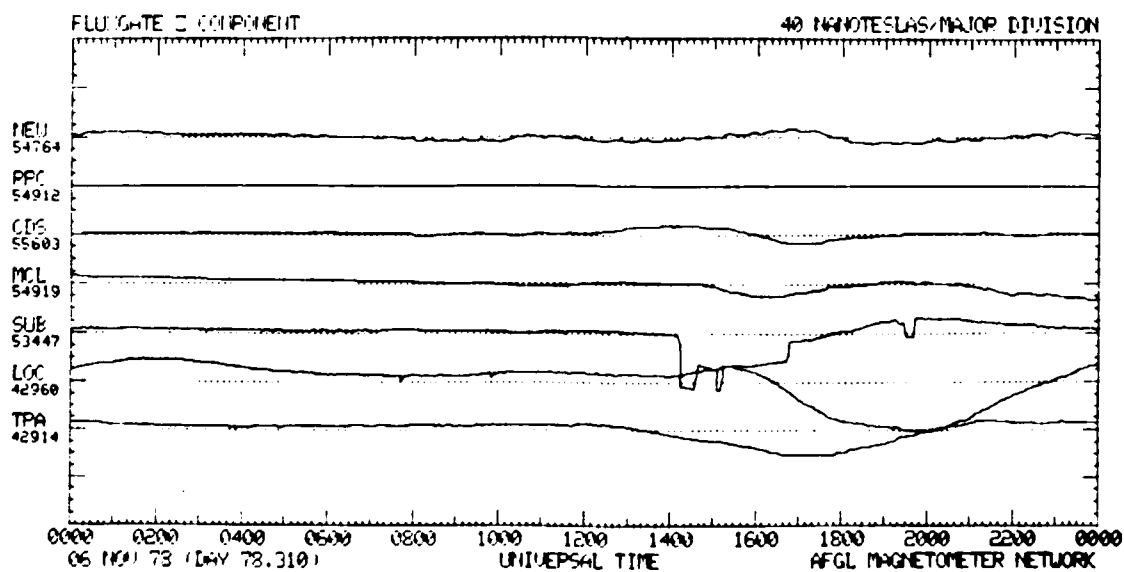
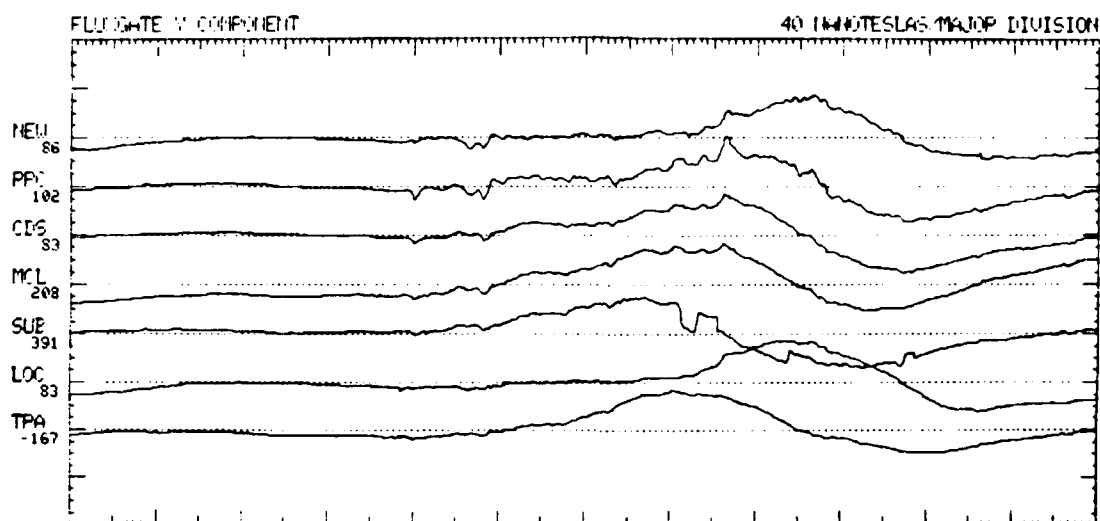
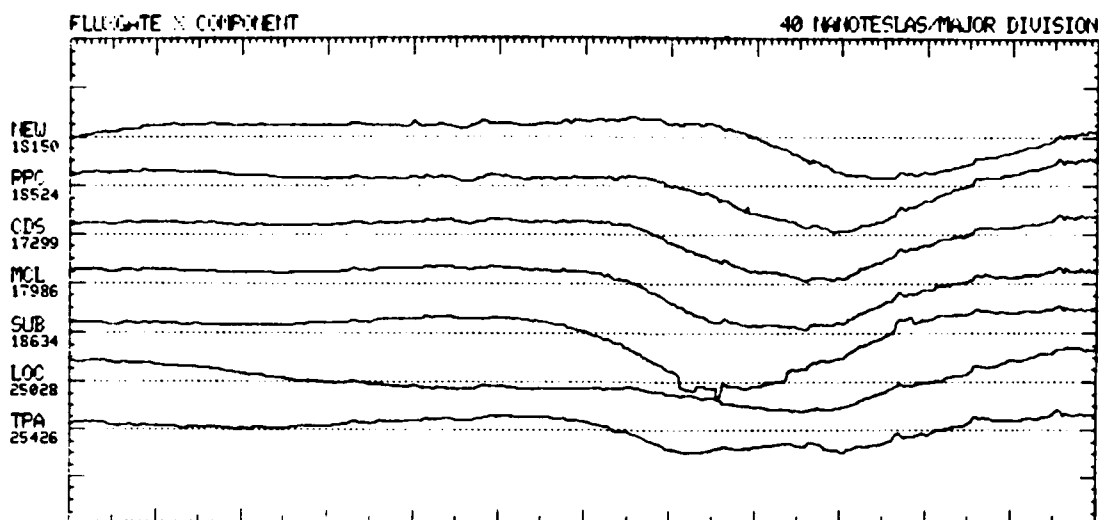
NEW
54770
PPC
54912
CDS
55602
MCL
54912
SUB
53455
LOC
42968
TPA
42923

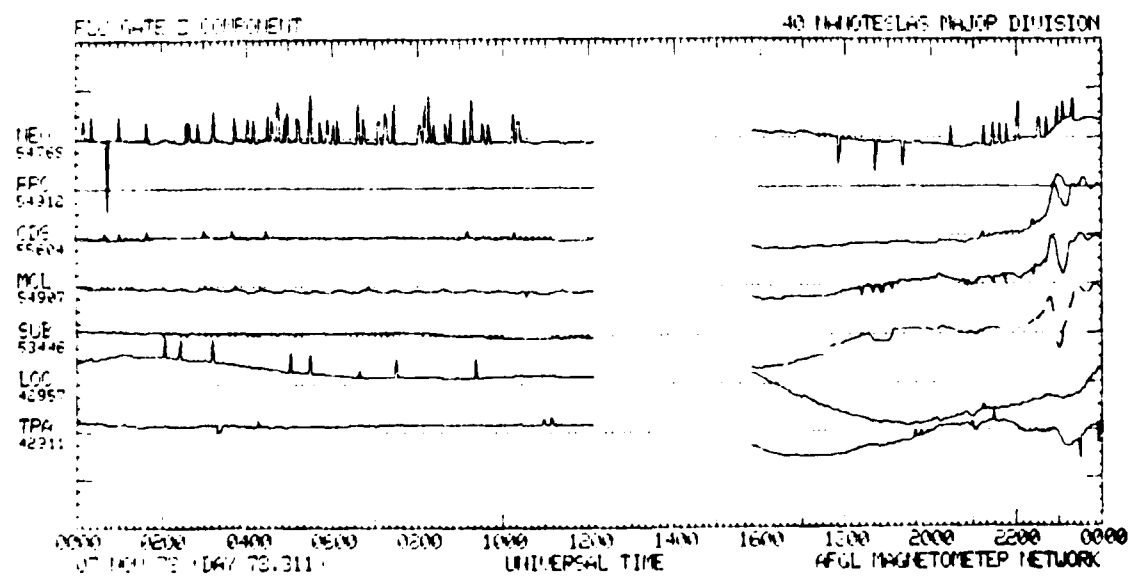
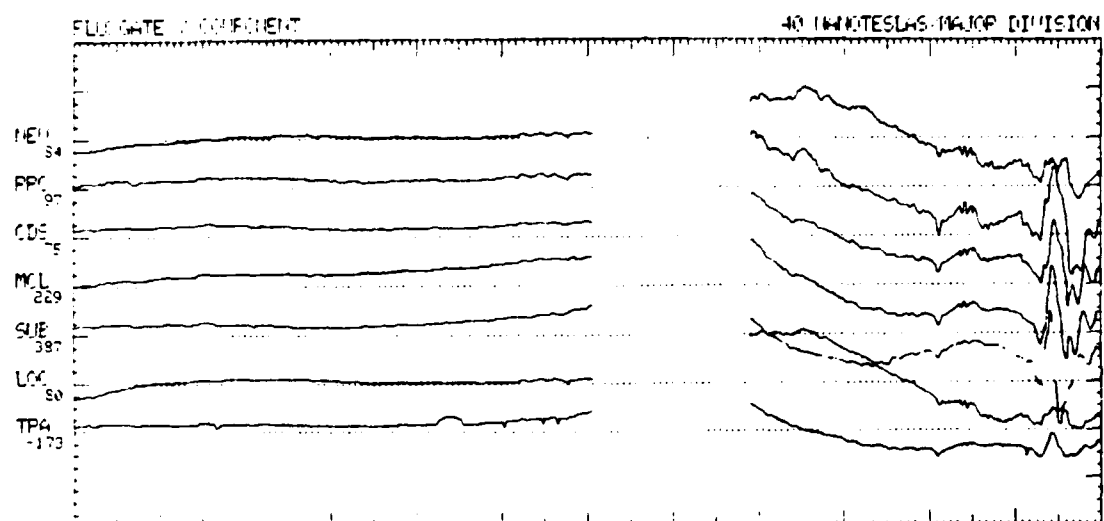
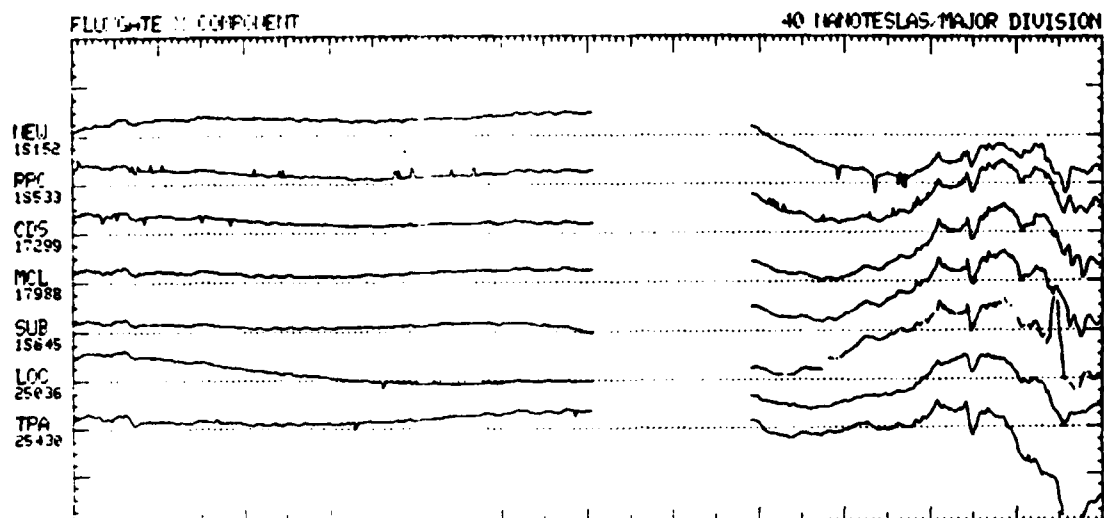


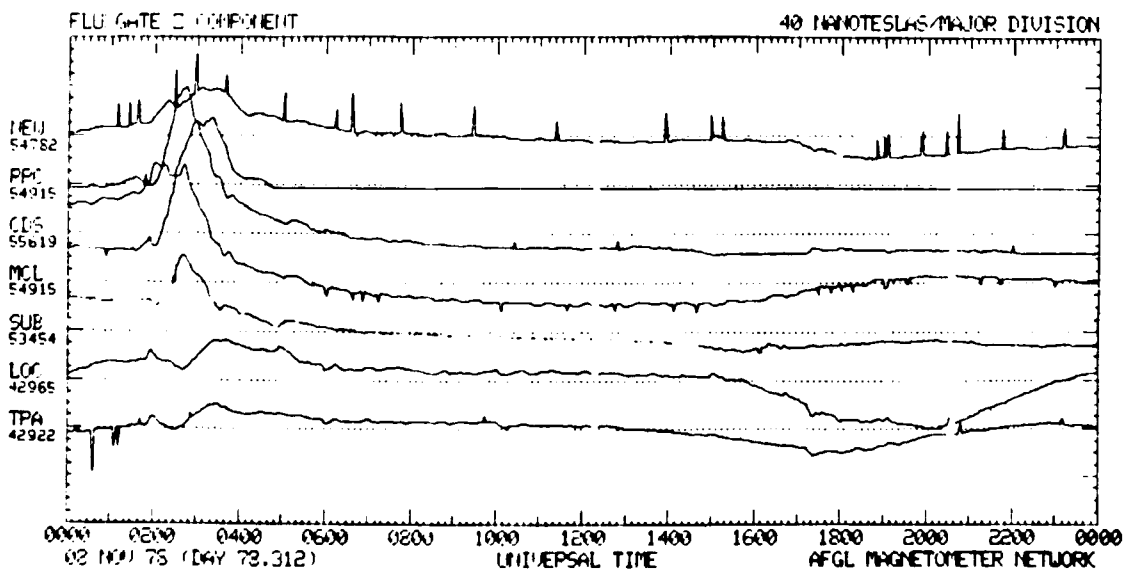
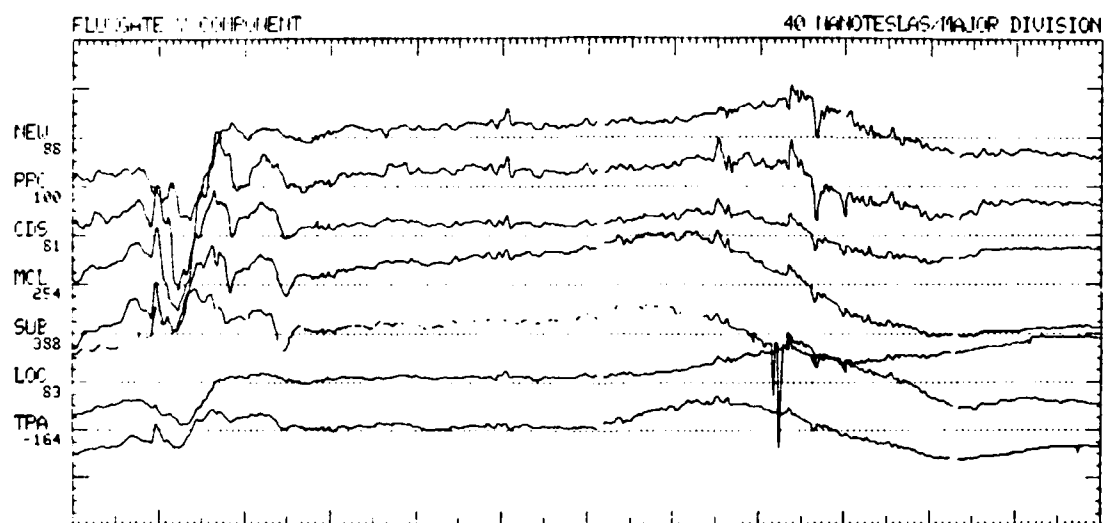
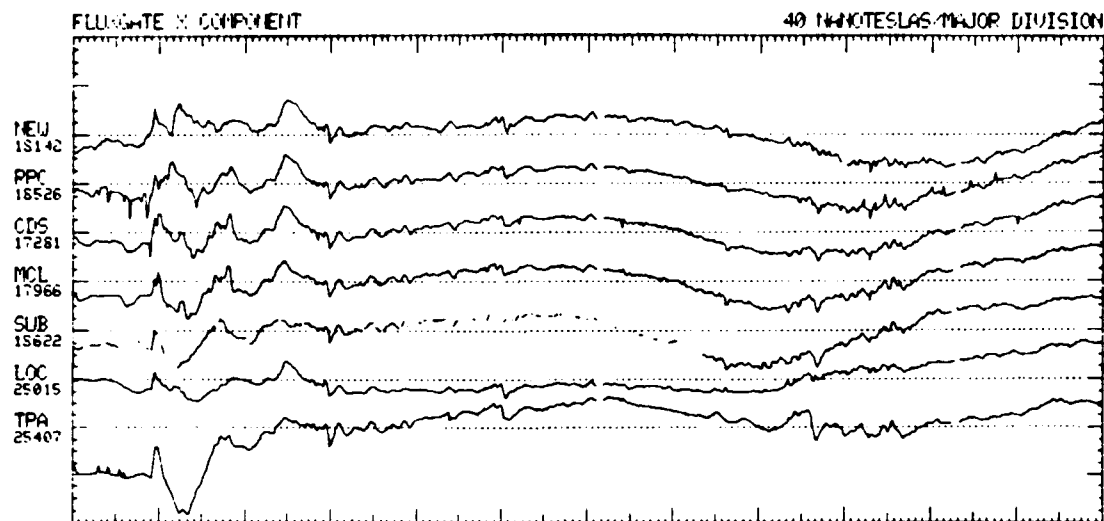
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03 NOV 73 (DAY 78.307) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

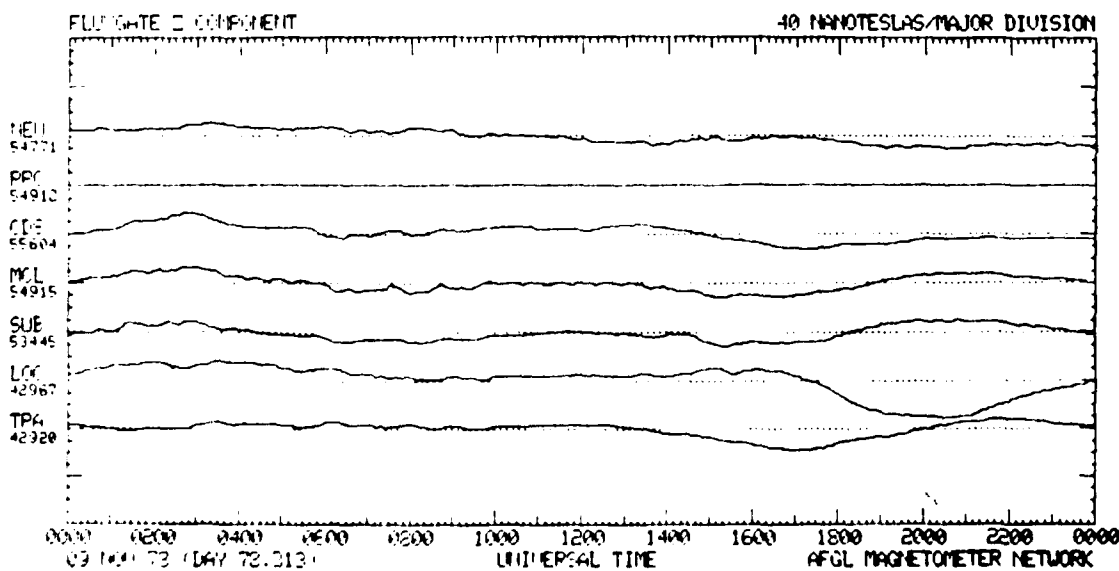
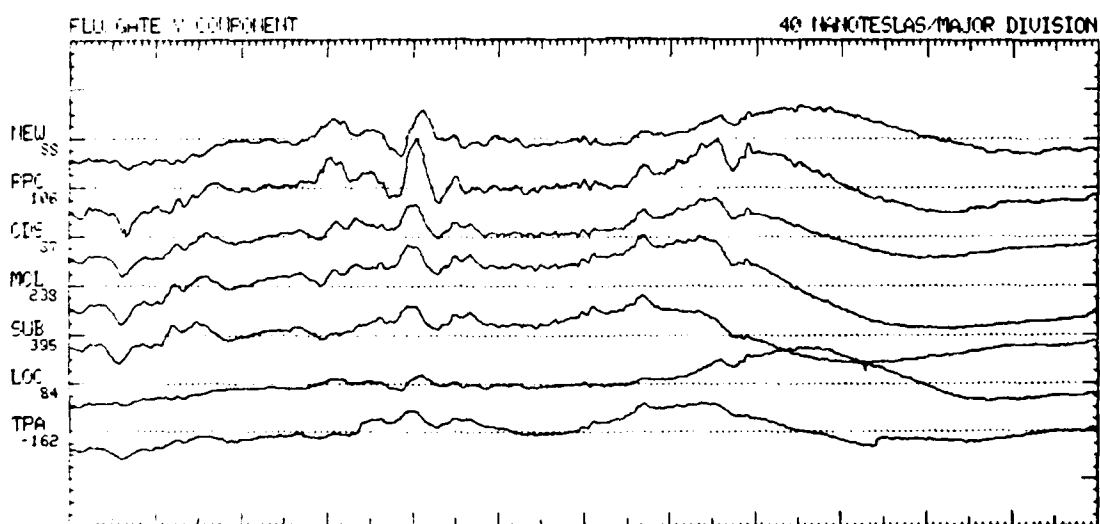
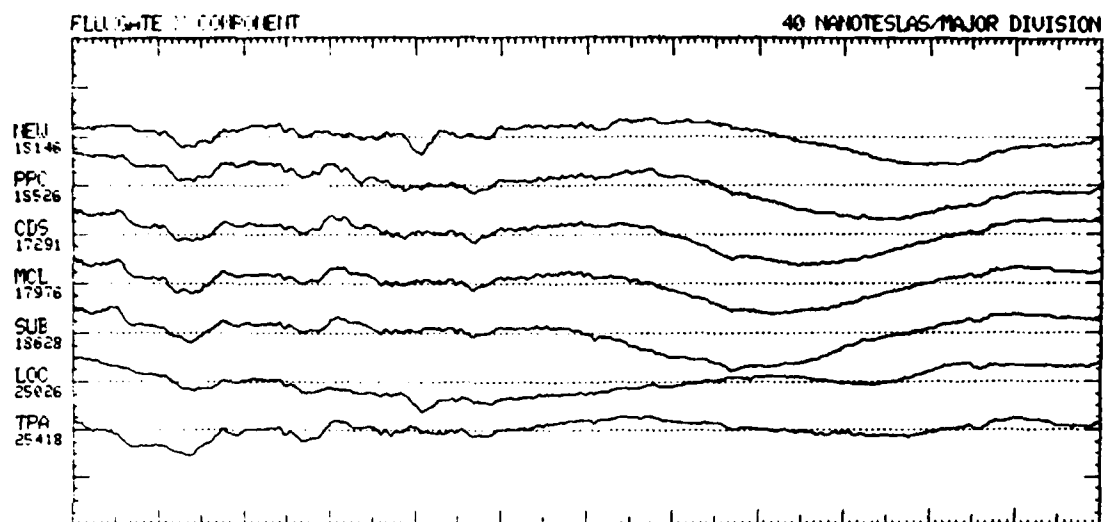


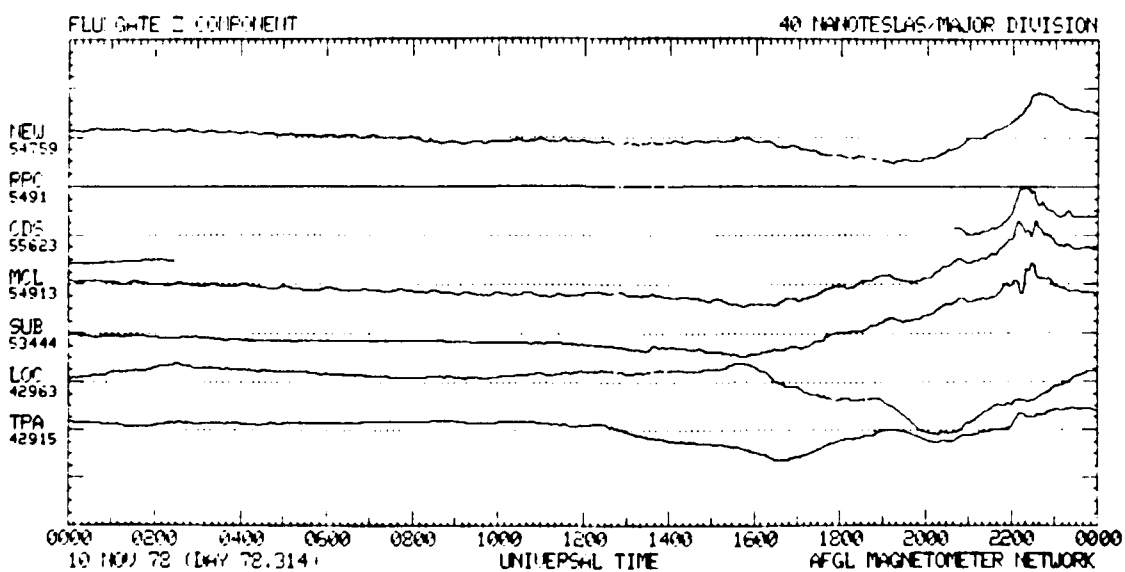
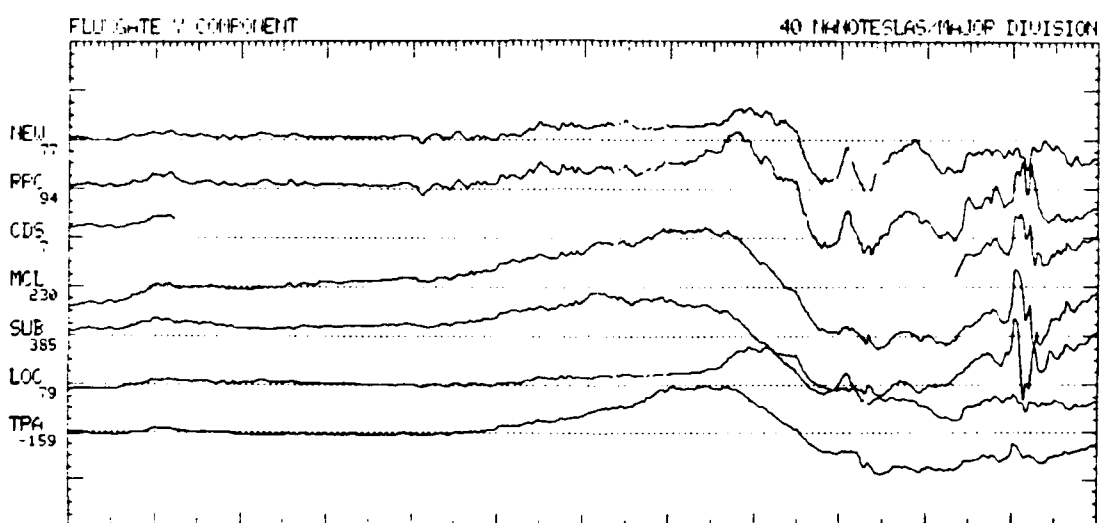
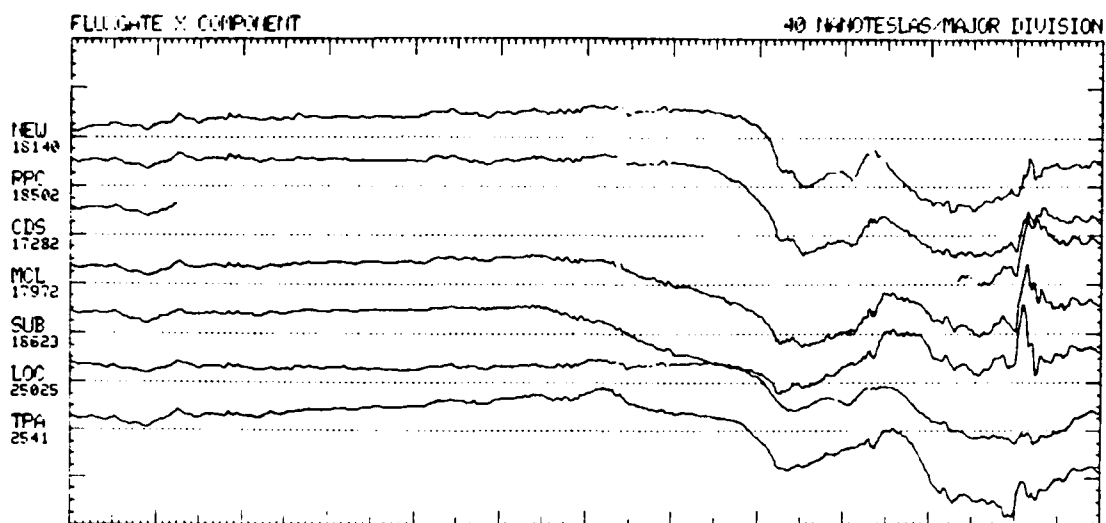


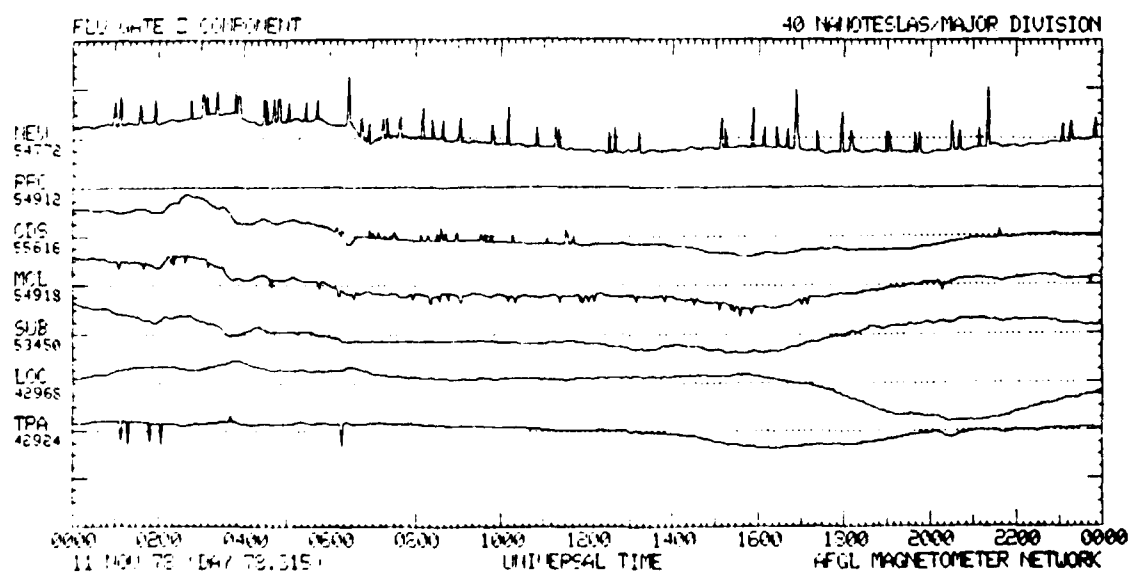
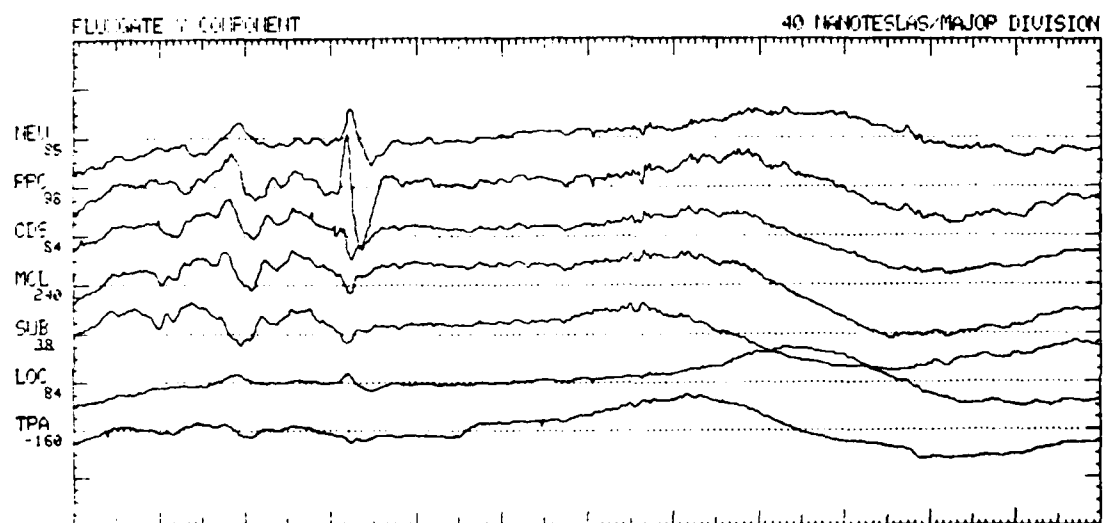
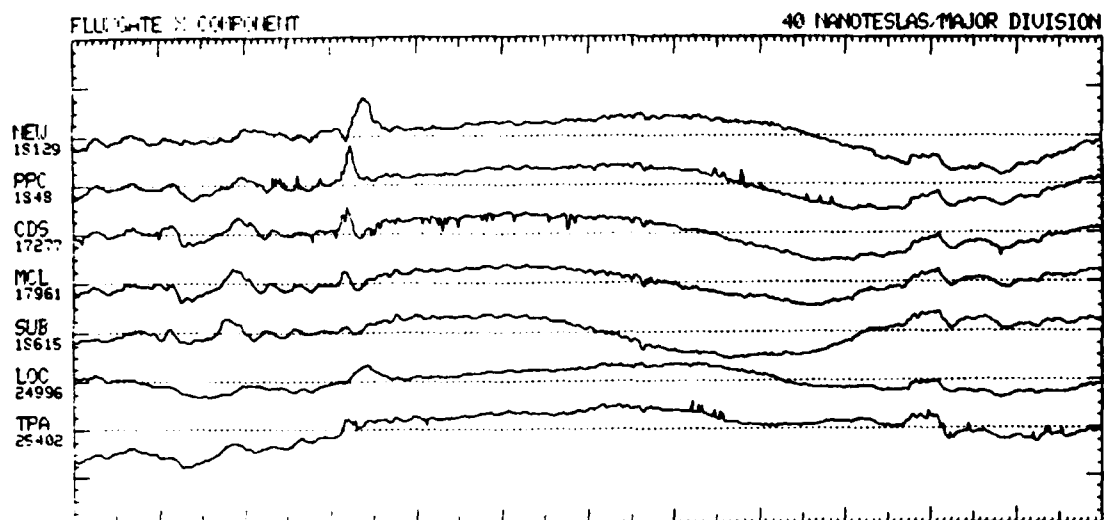


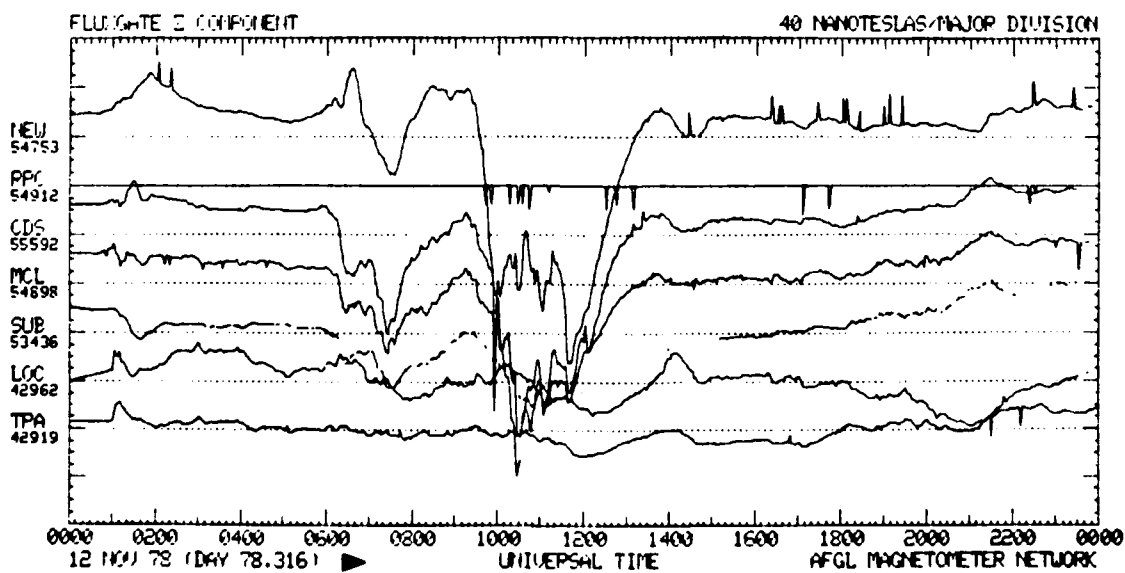
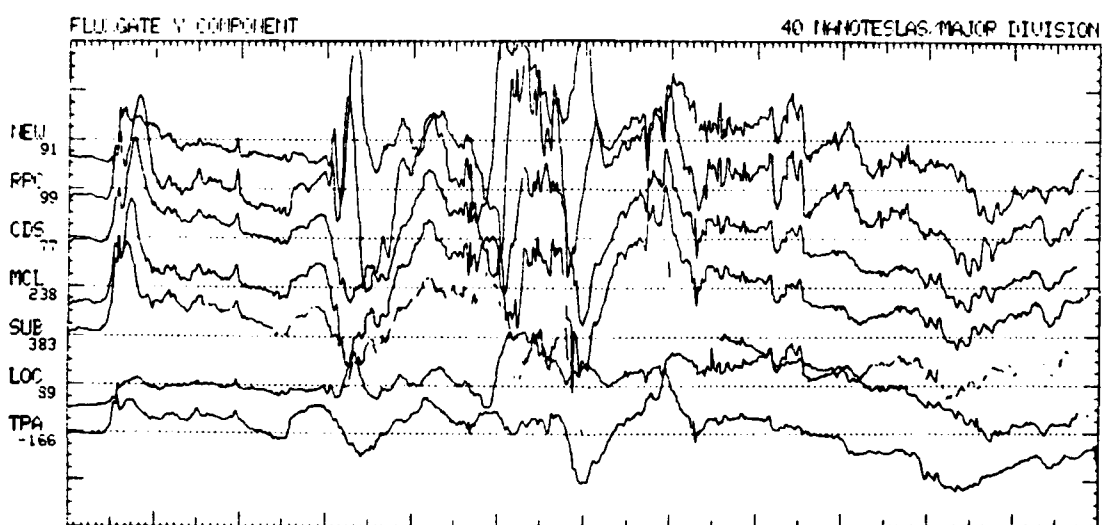
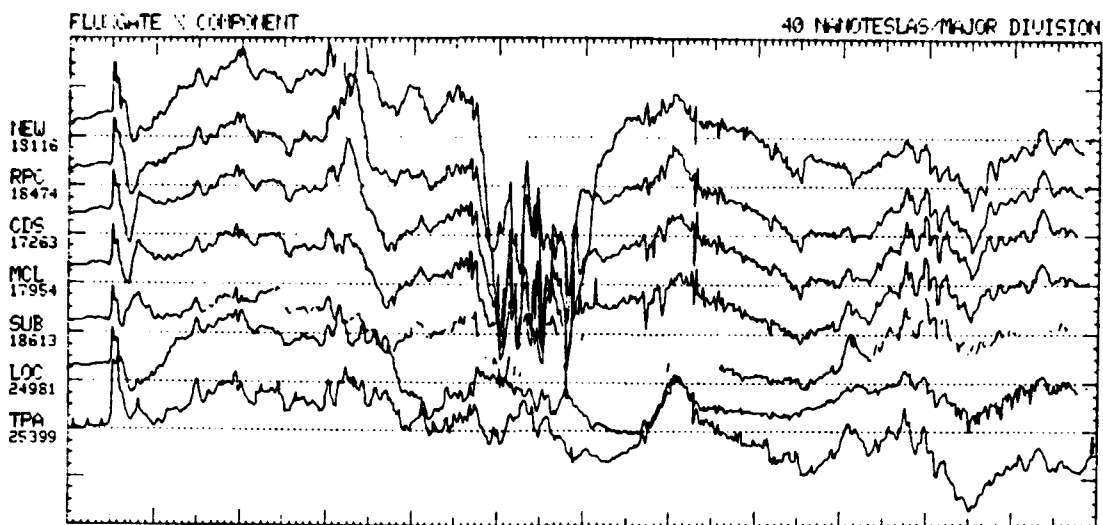


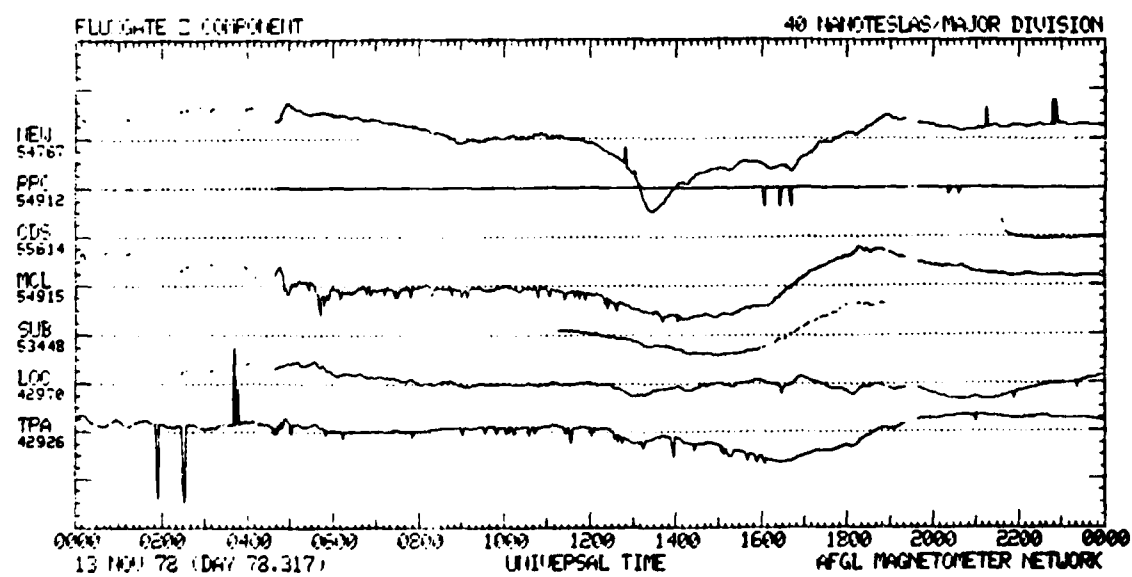
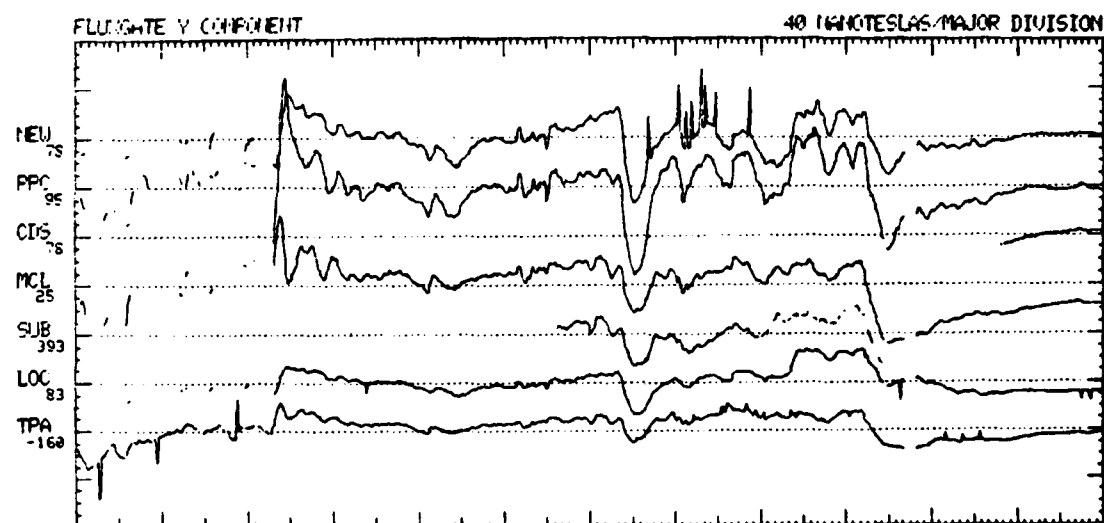
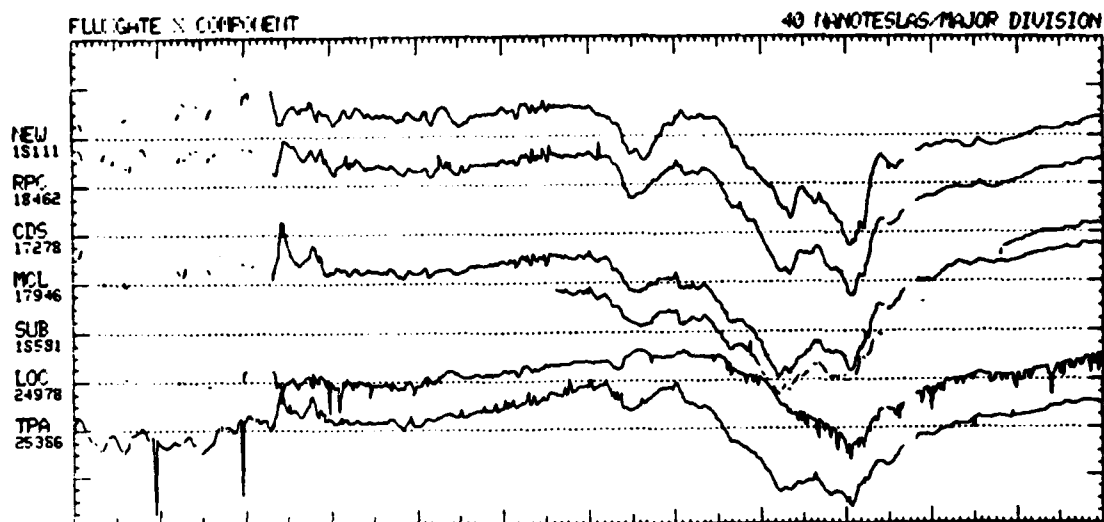


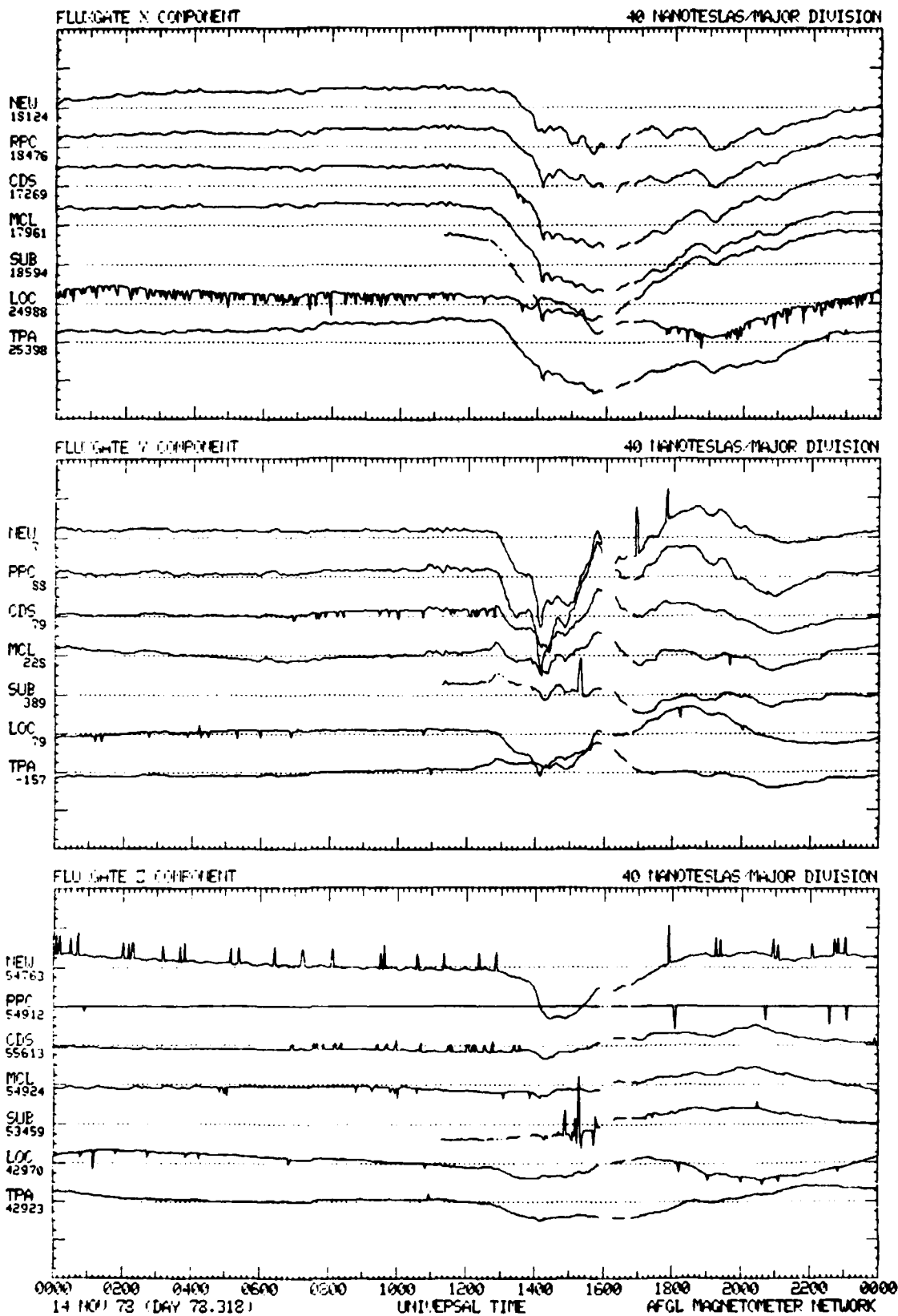


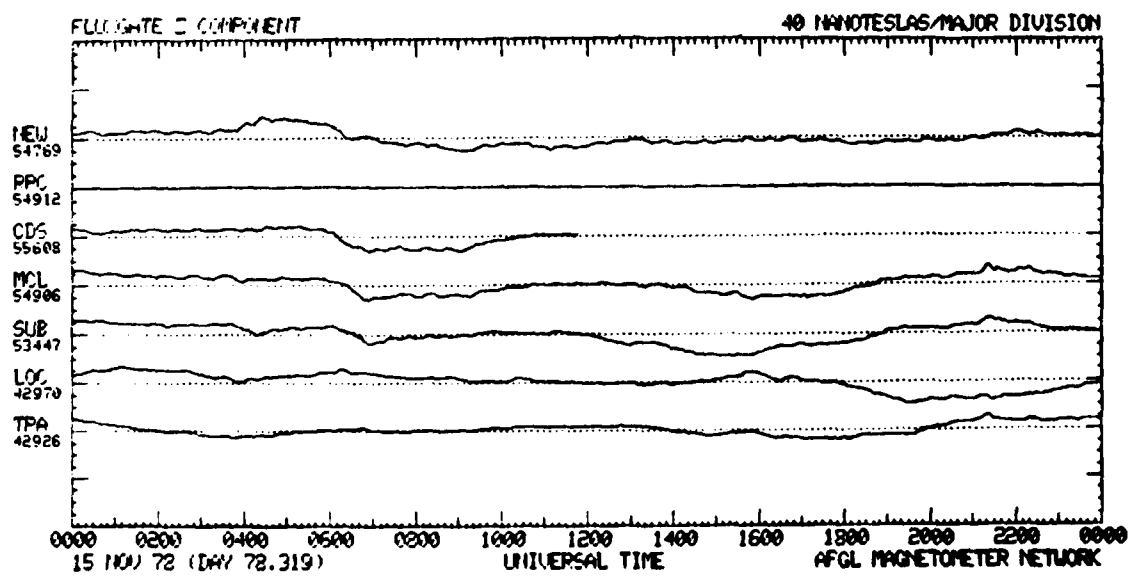
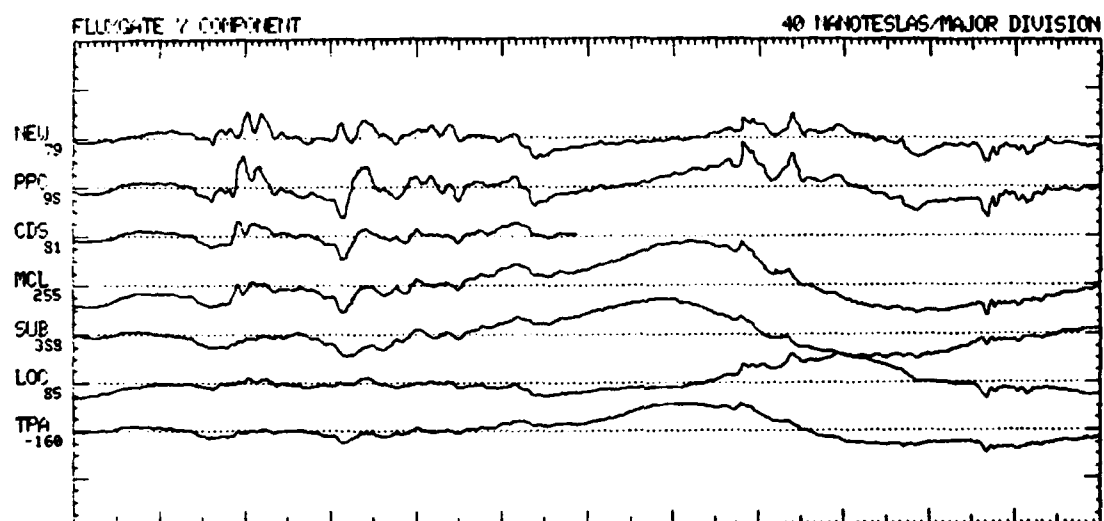
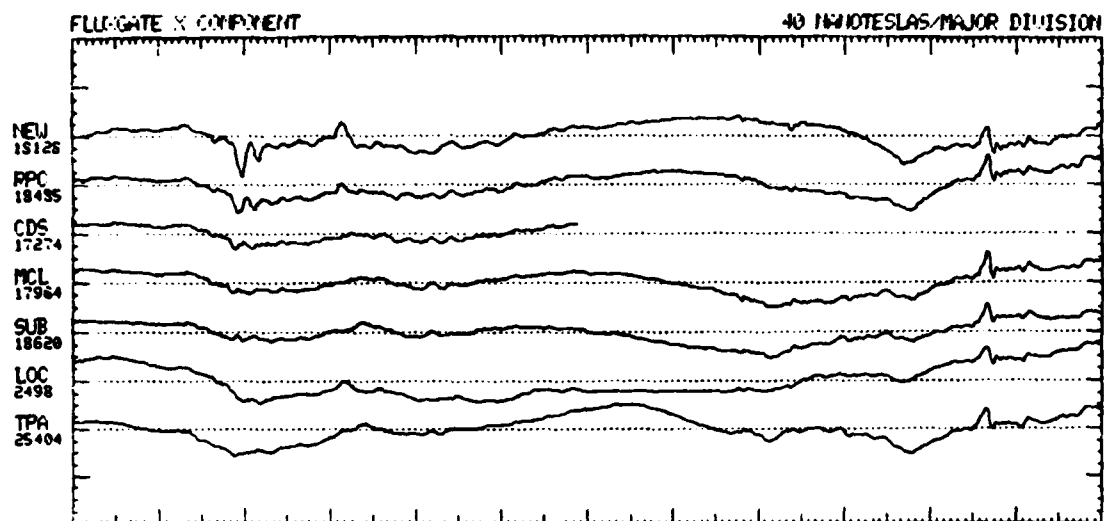


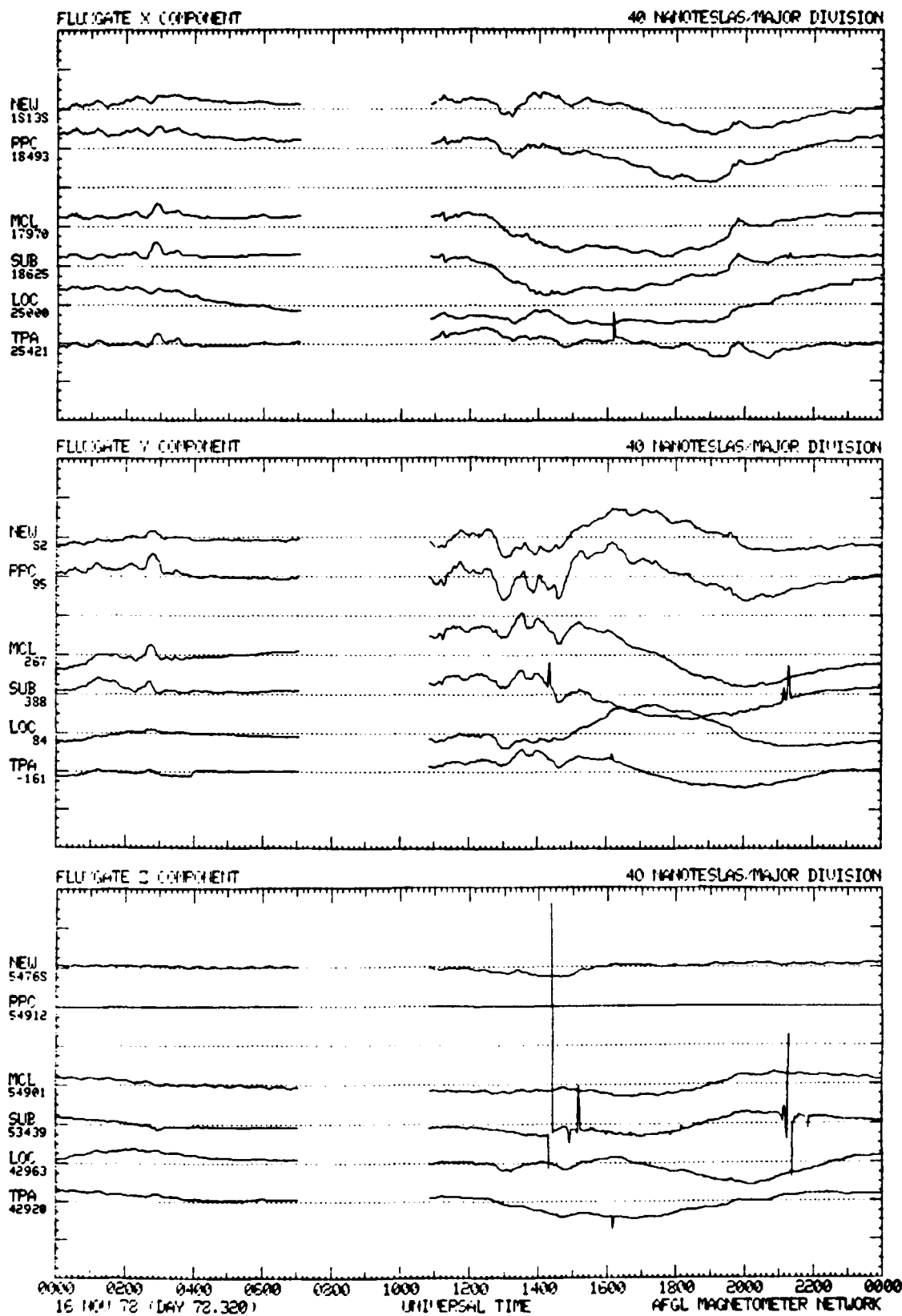












FLIGHTLINE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18144

PPC
18505

MCL
17980

SUB
18627

LOC
25915

TPA
25425

FLIGHTLINE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
84

PPC
97

MCL
259

SUB
389

LOC
94

TPA
-157

FLIGHTLINE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54765

PPC
54912

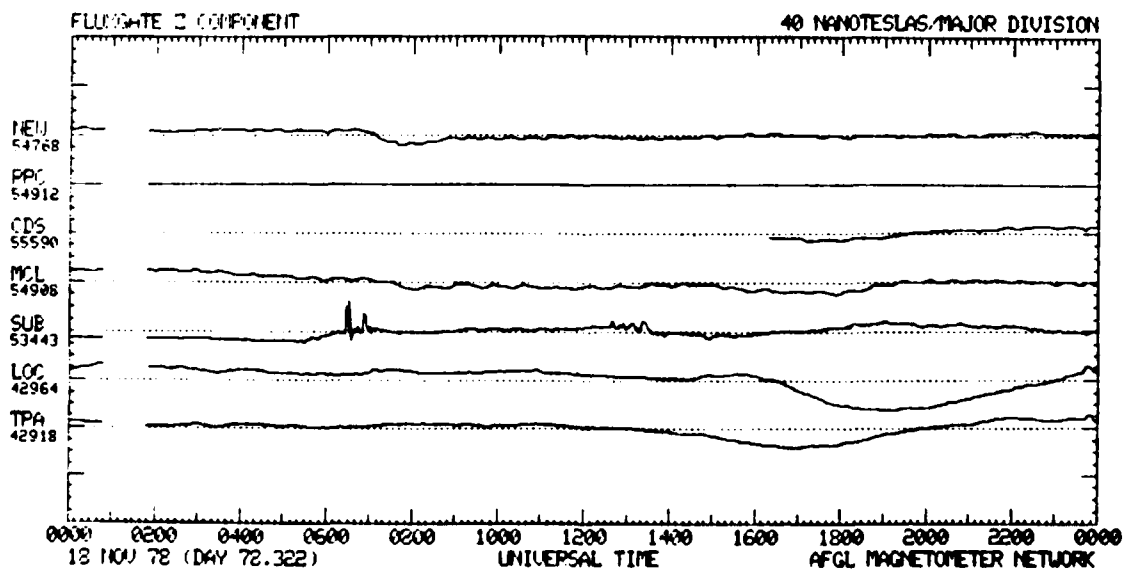
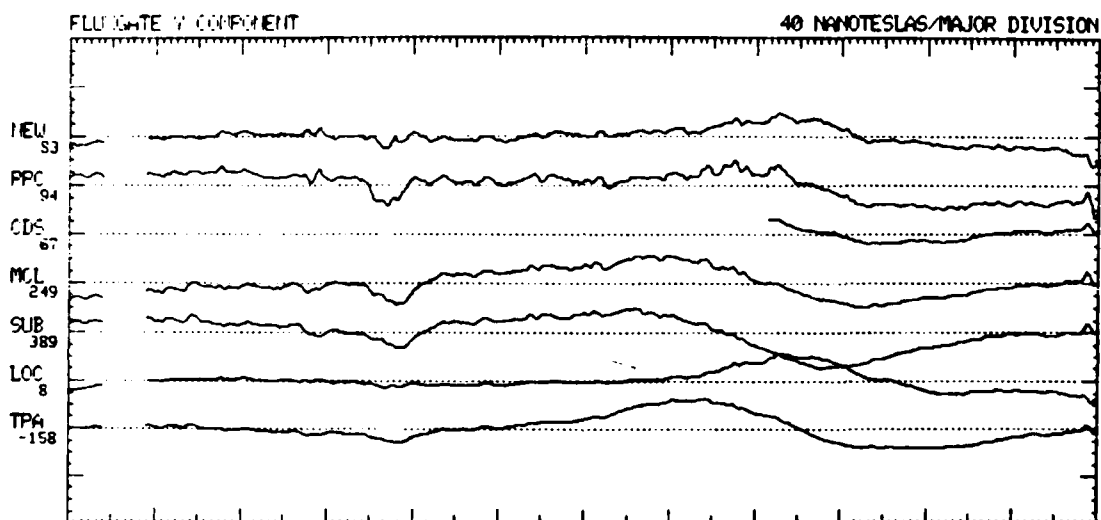
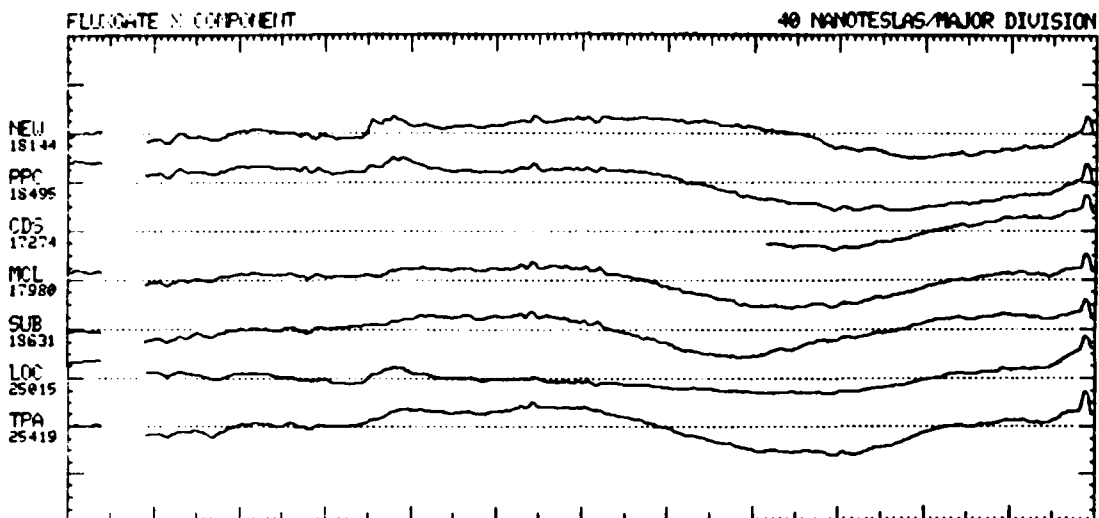
MCL
54903

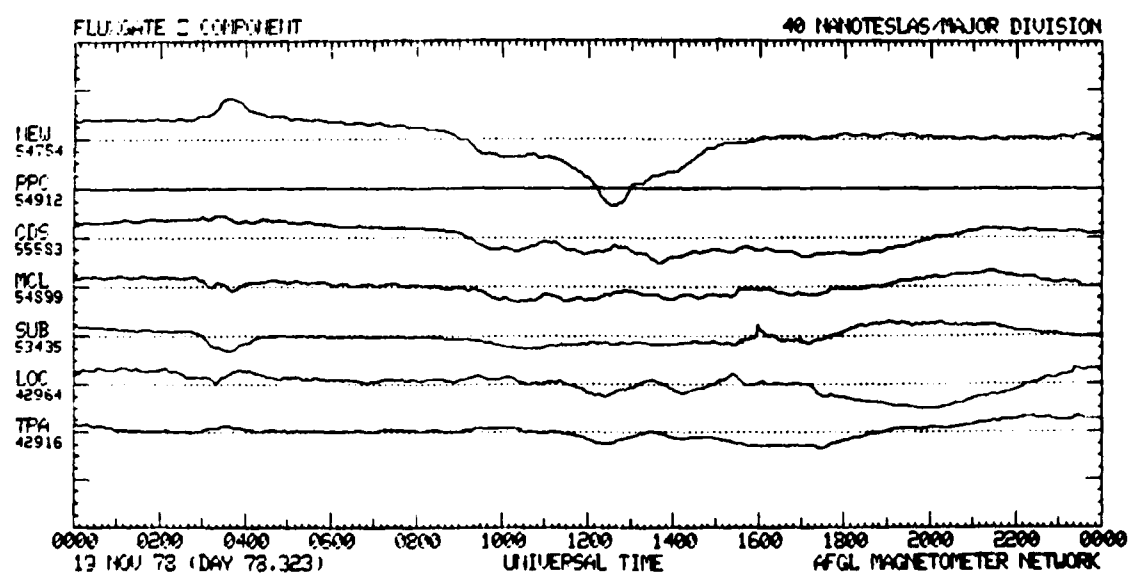
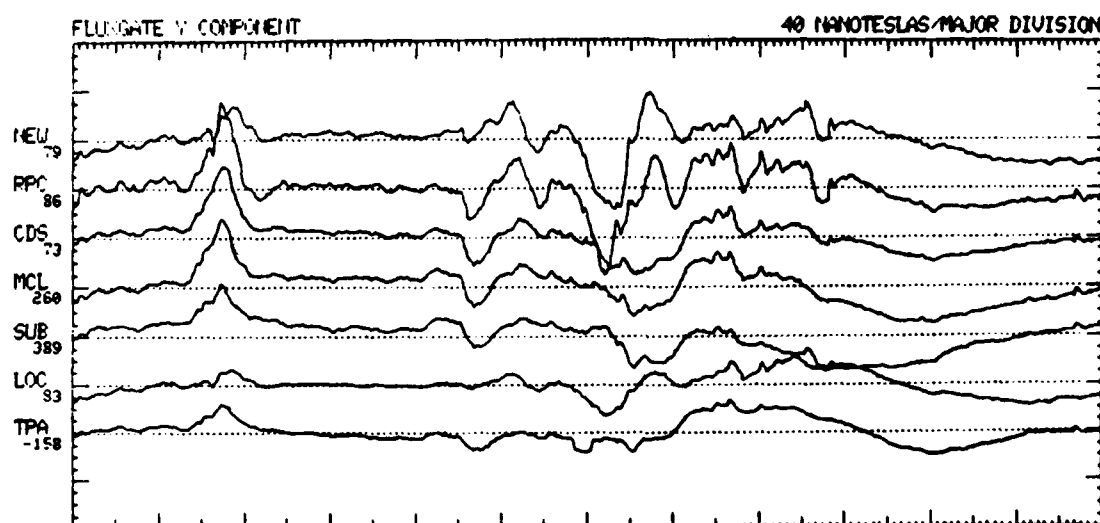
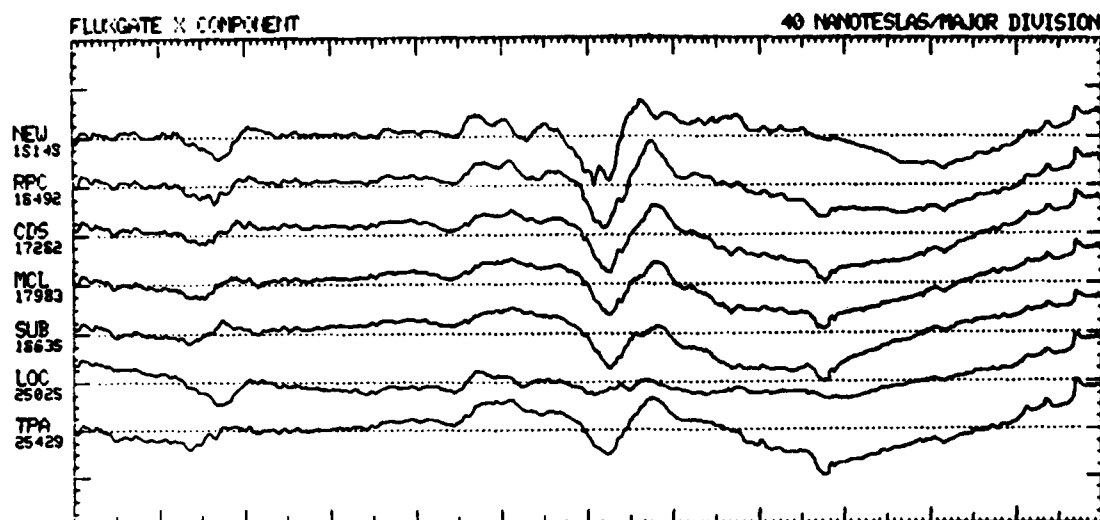
SUB
53436

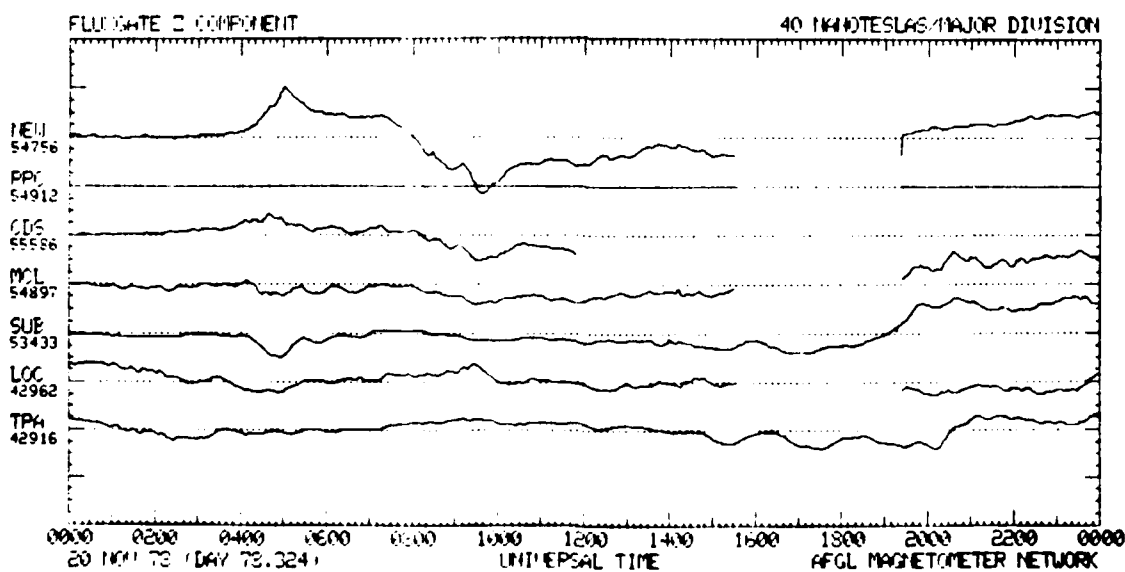
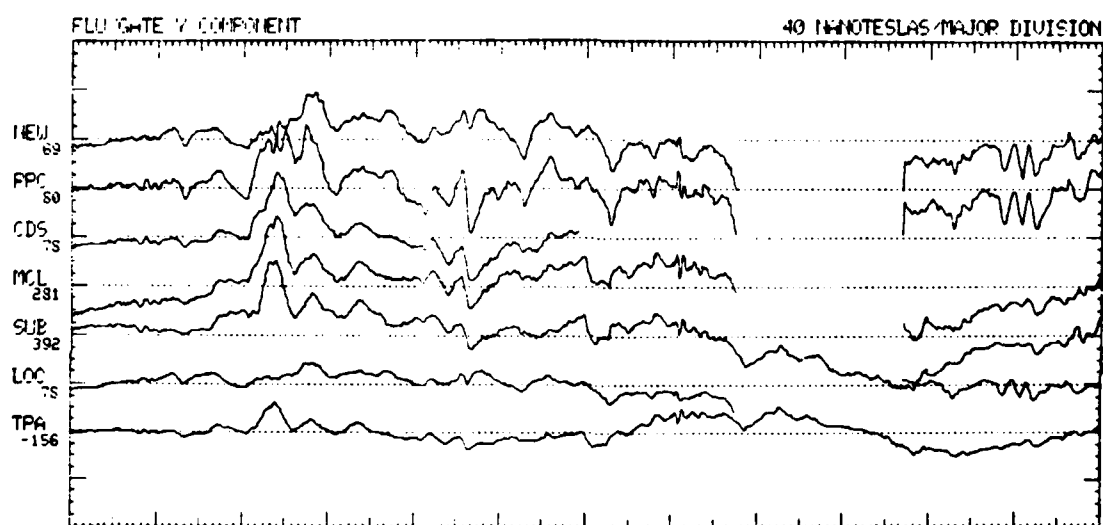
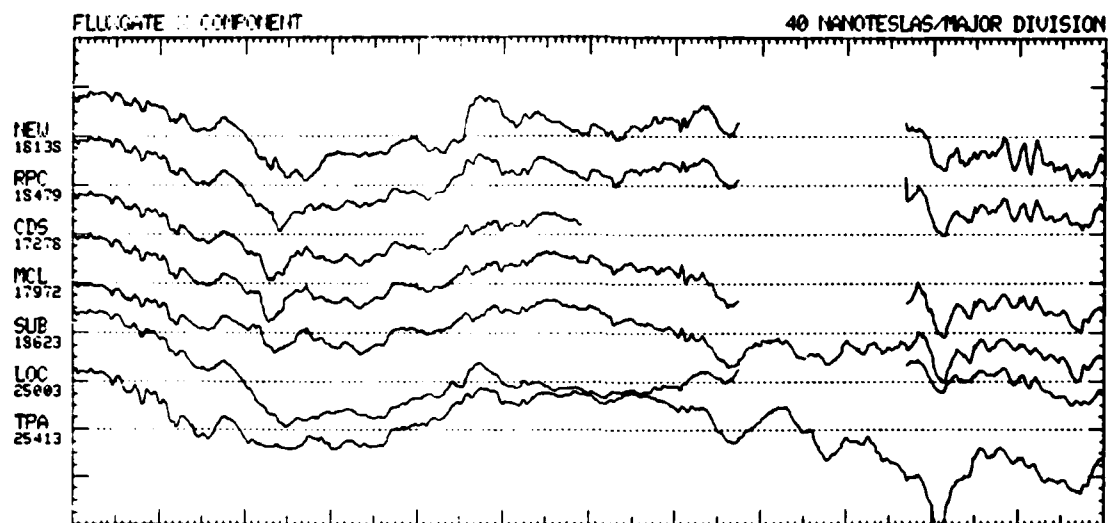
LOC
42963

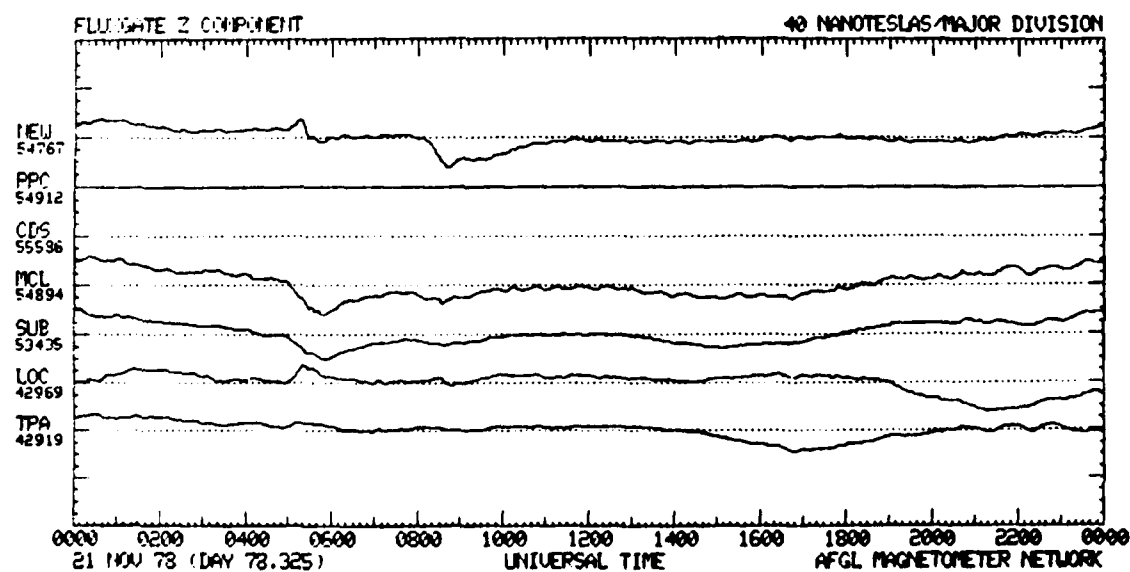
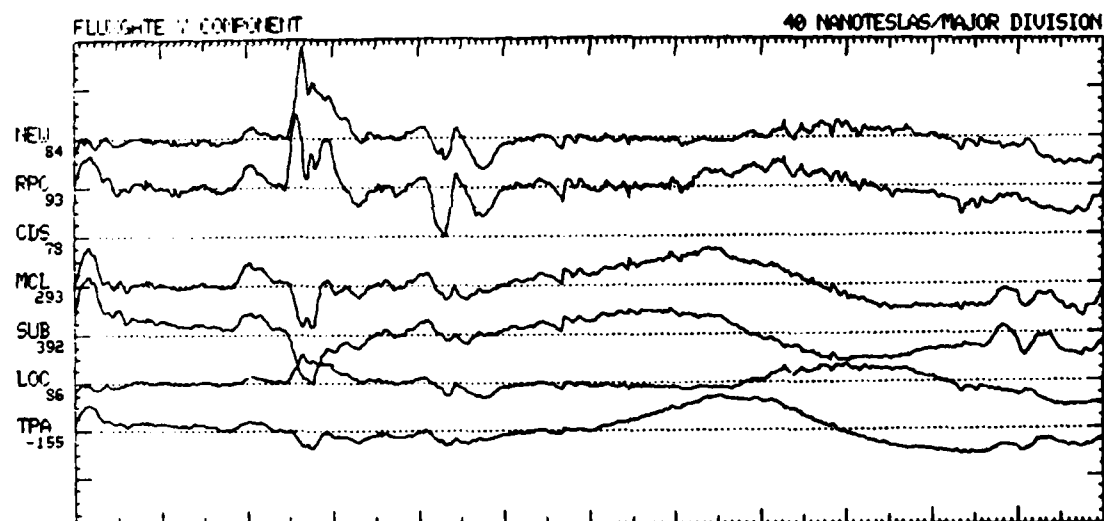
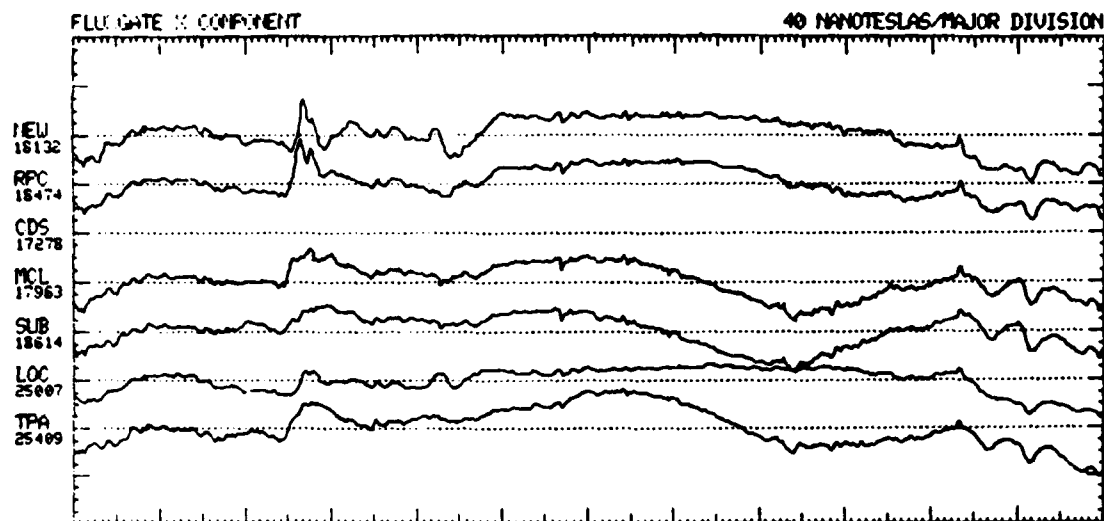
TPA
42919

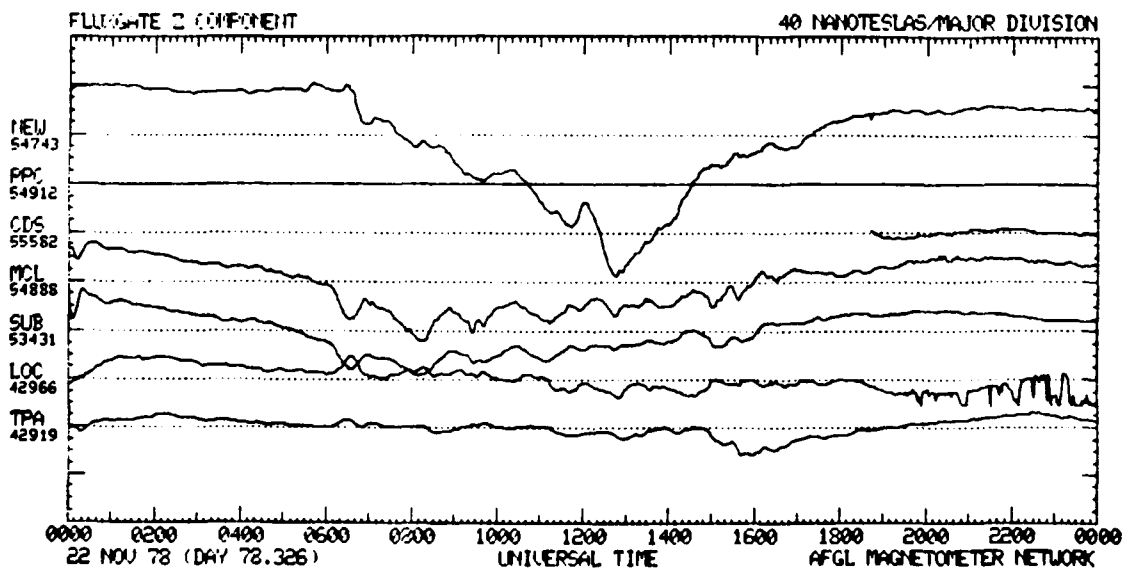
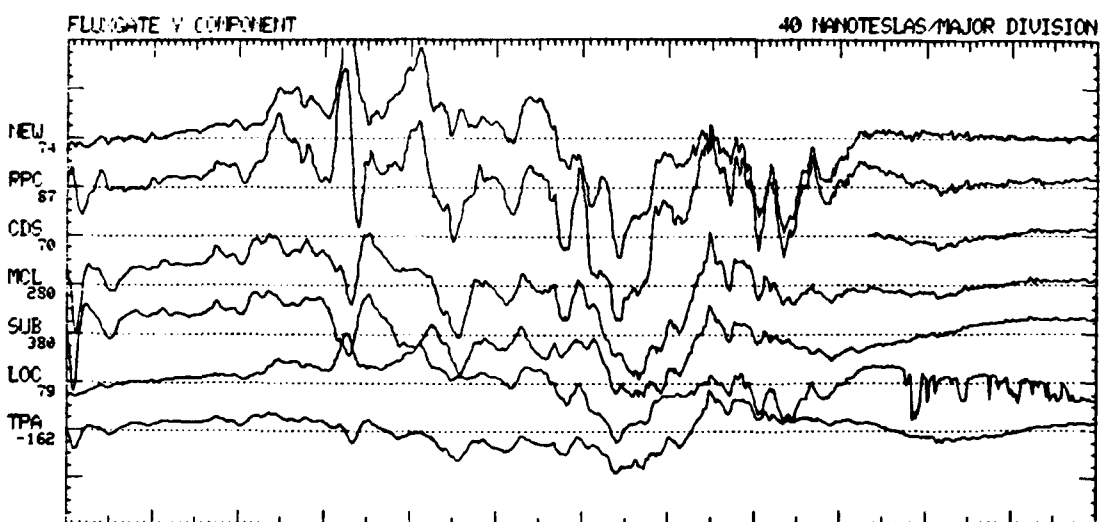
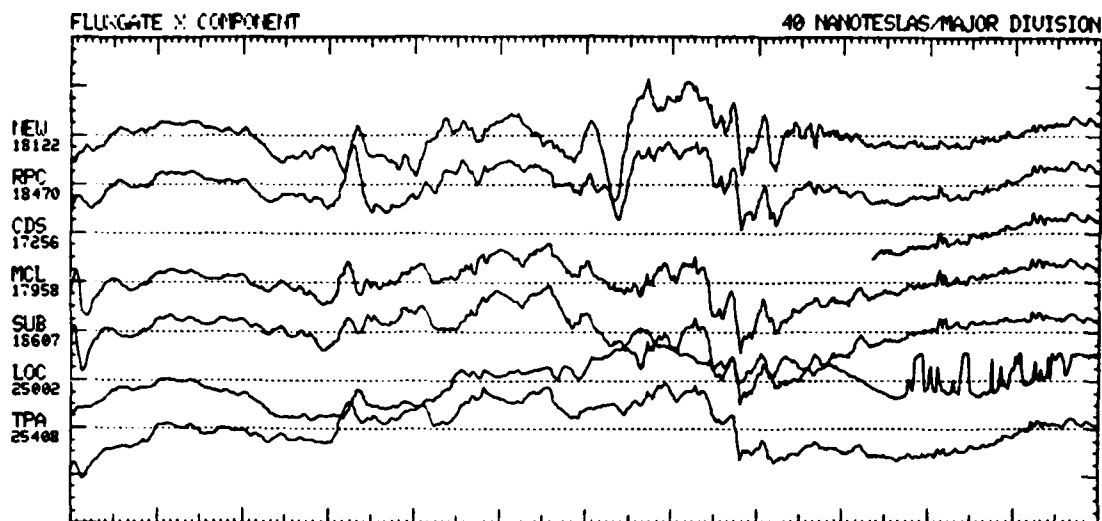
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17 NOV 78 (DAY 78.321) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

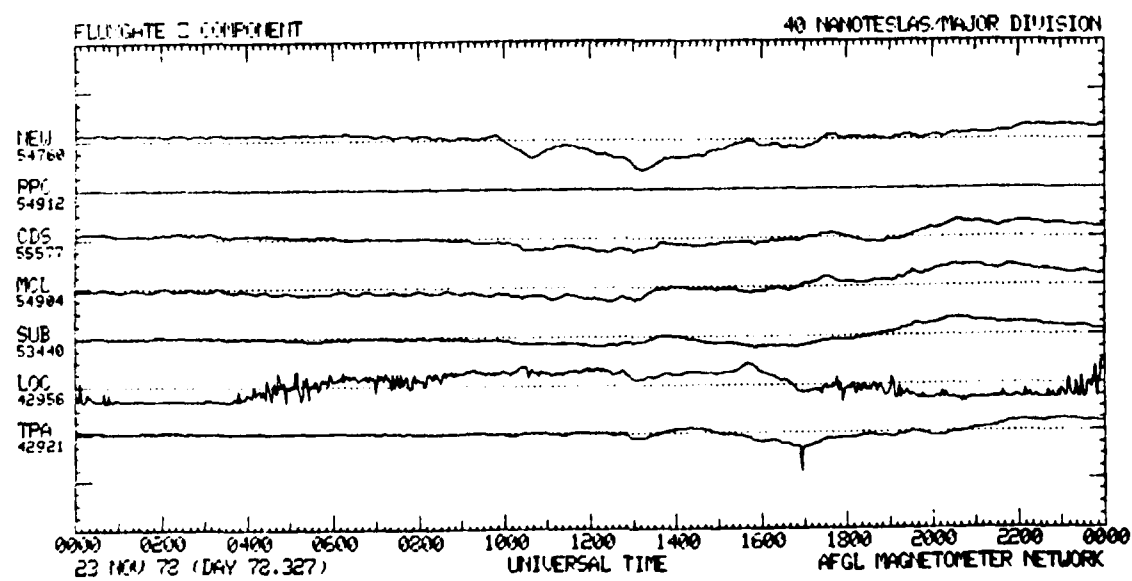
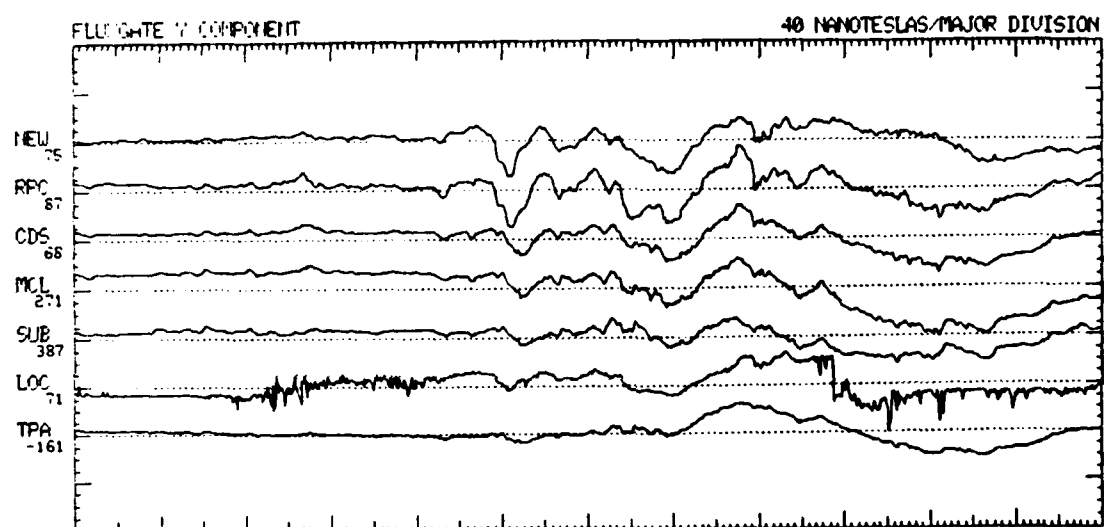
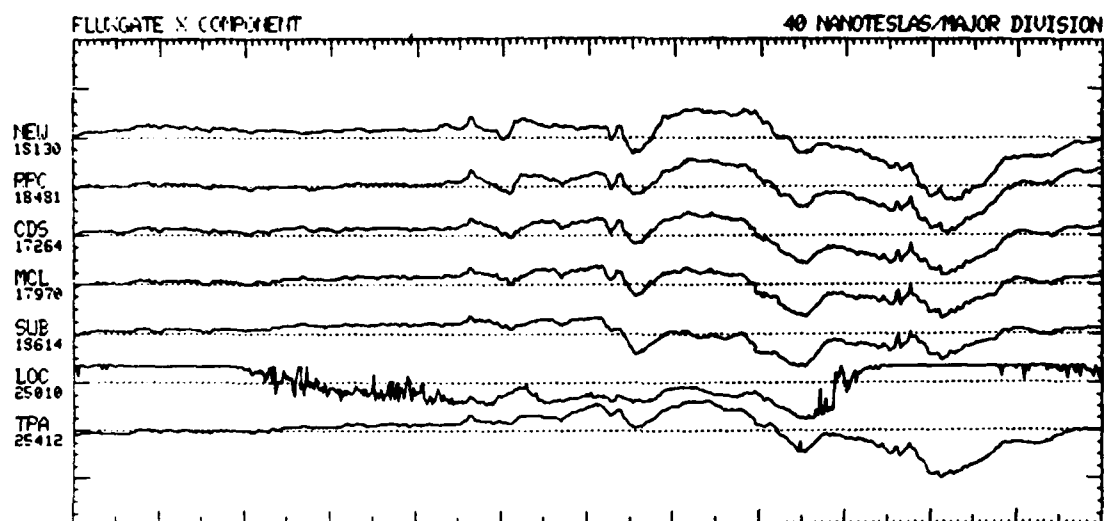


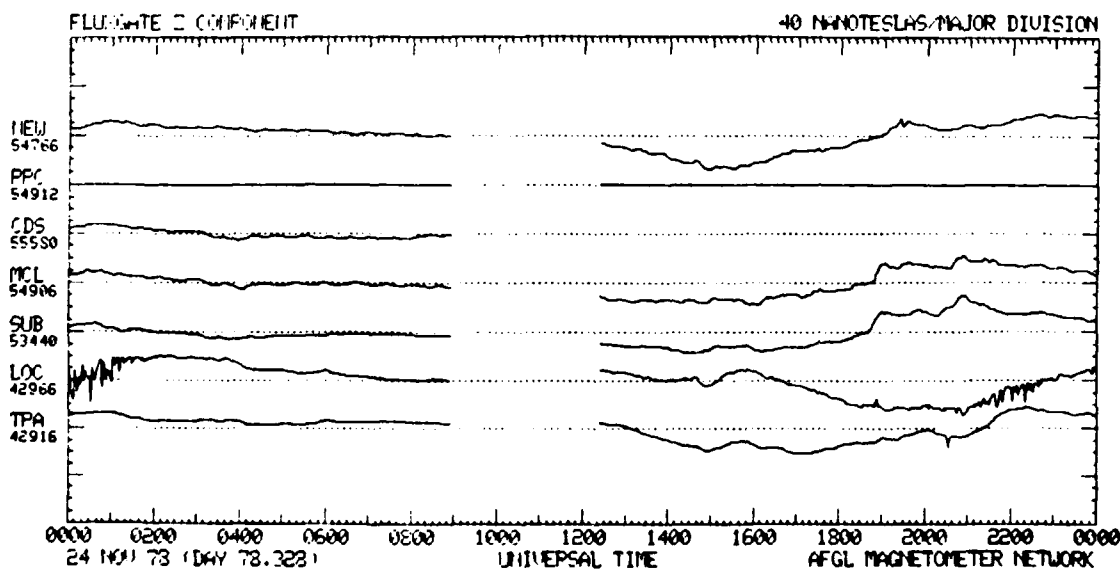
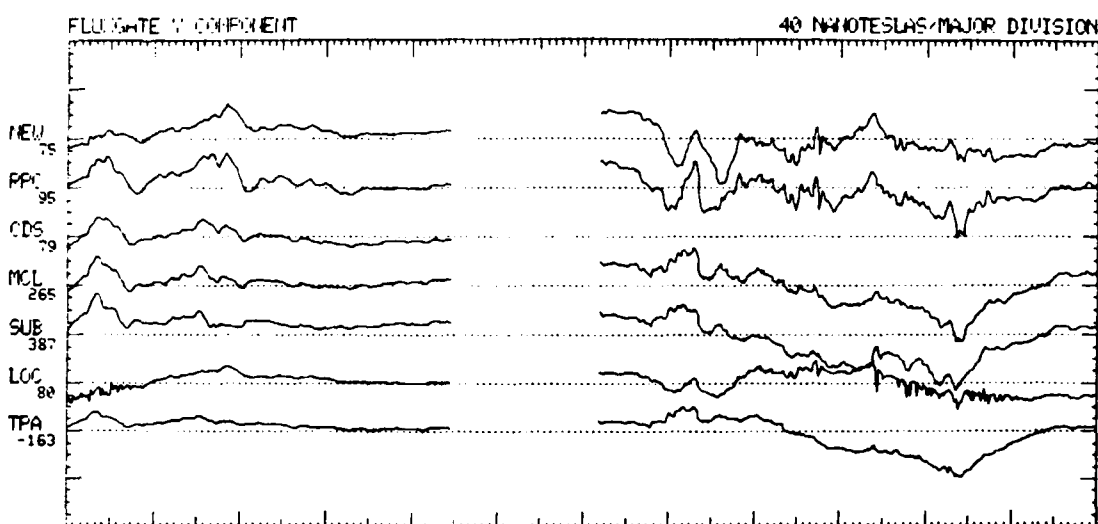
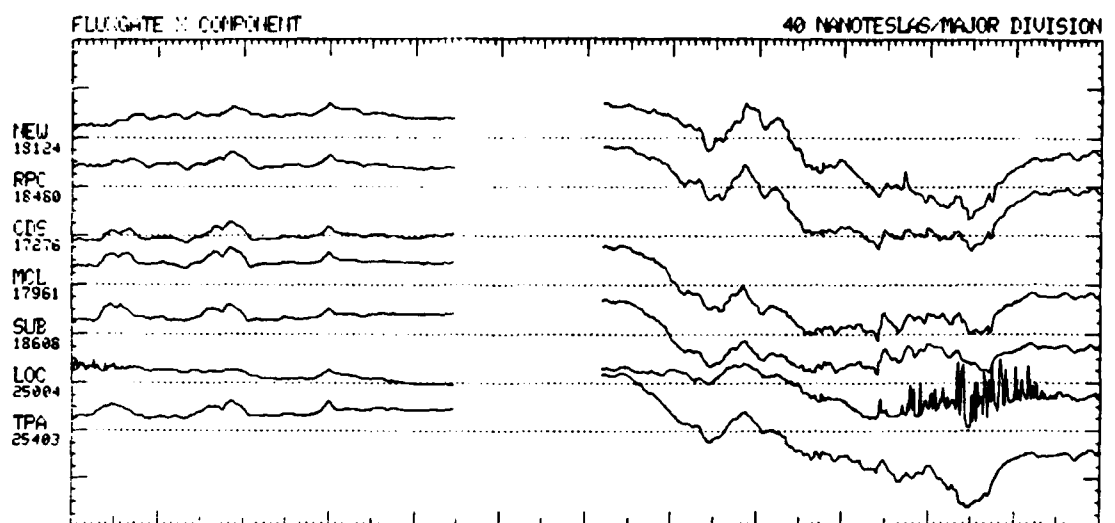


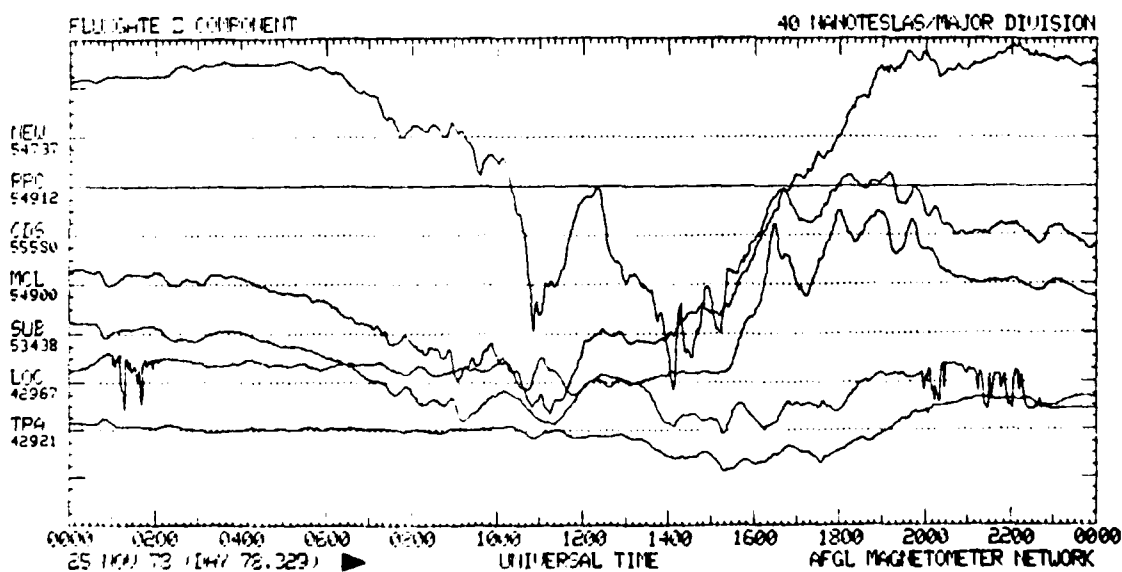
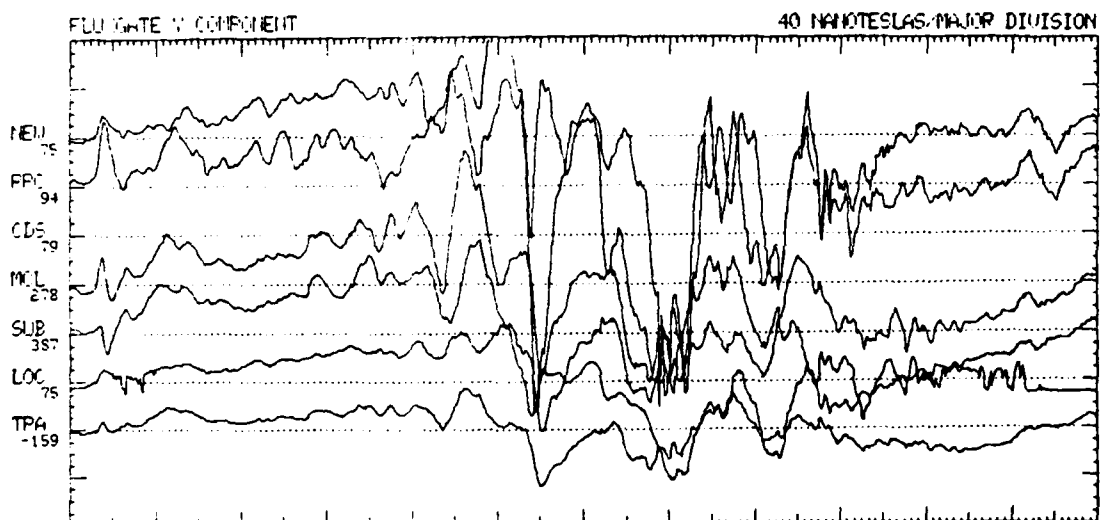
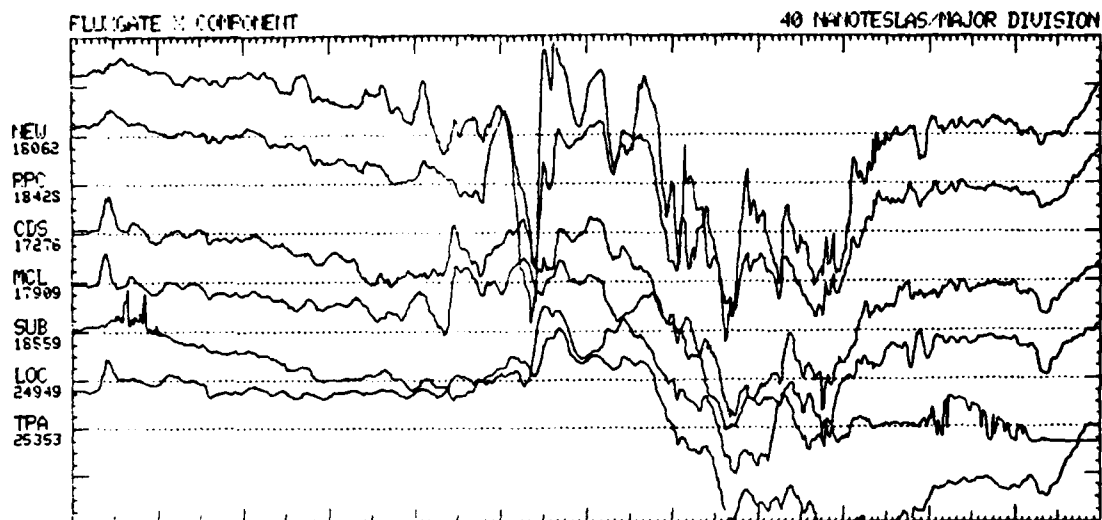


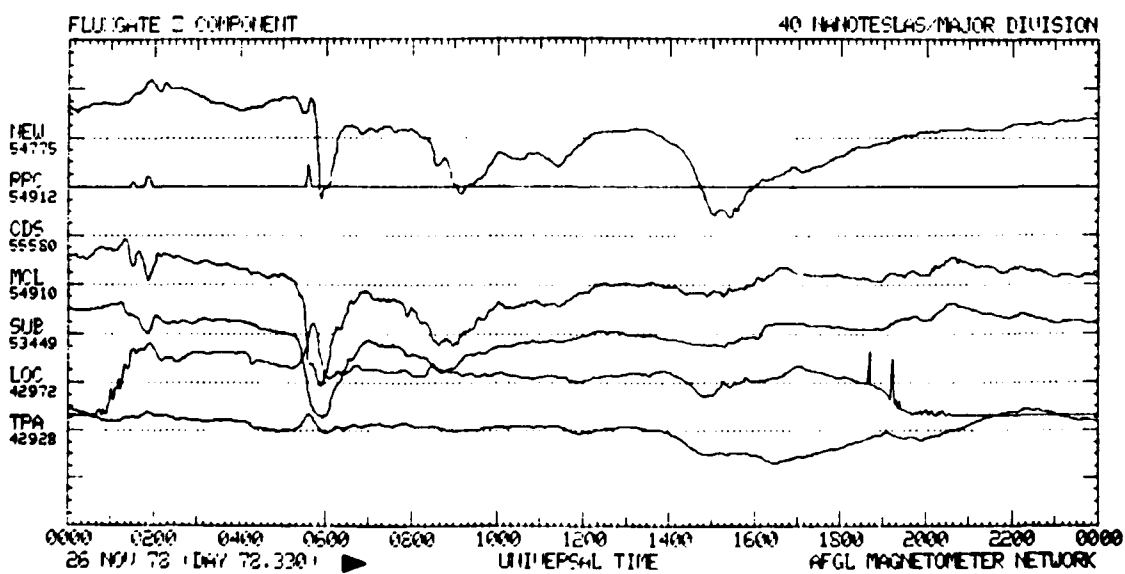
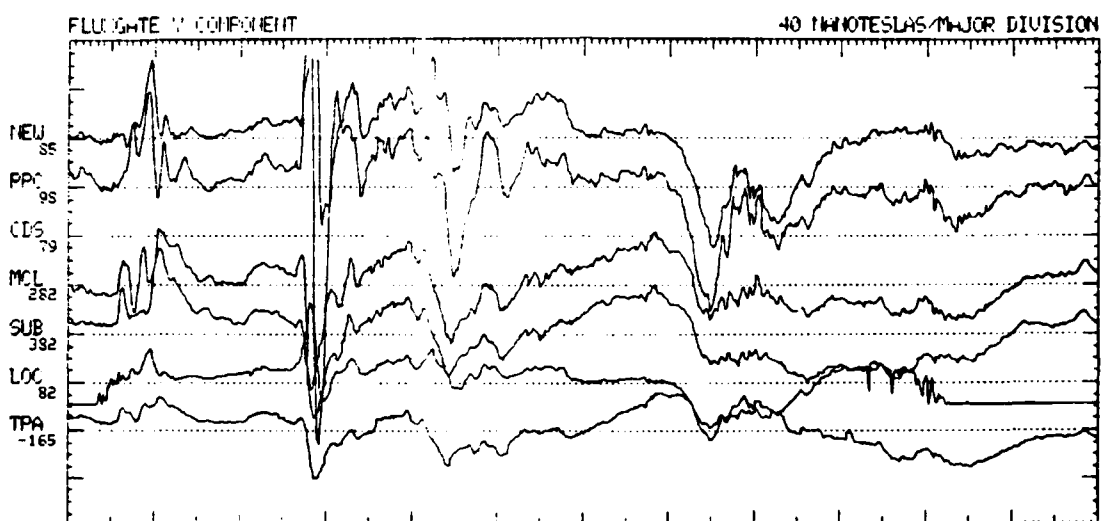
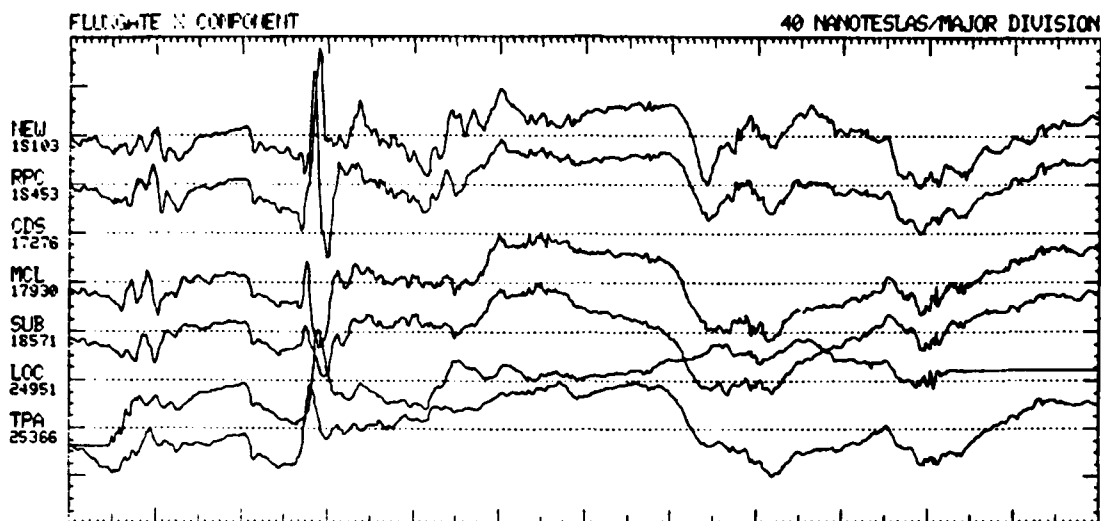


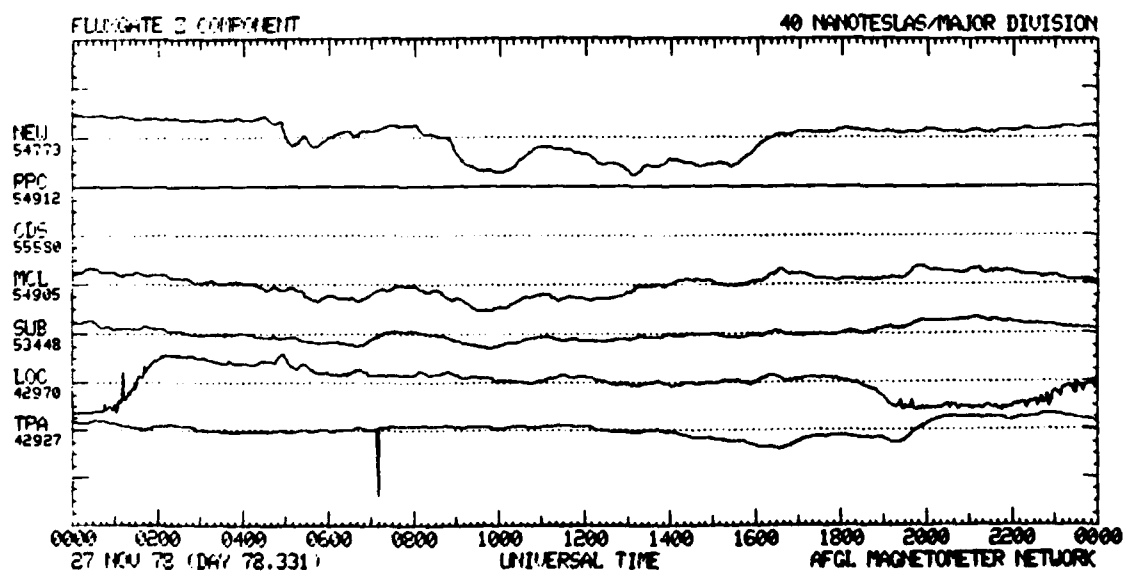
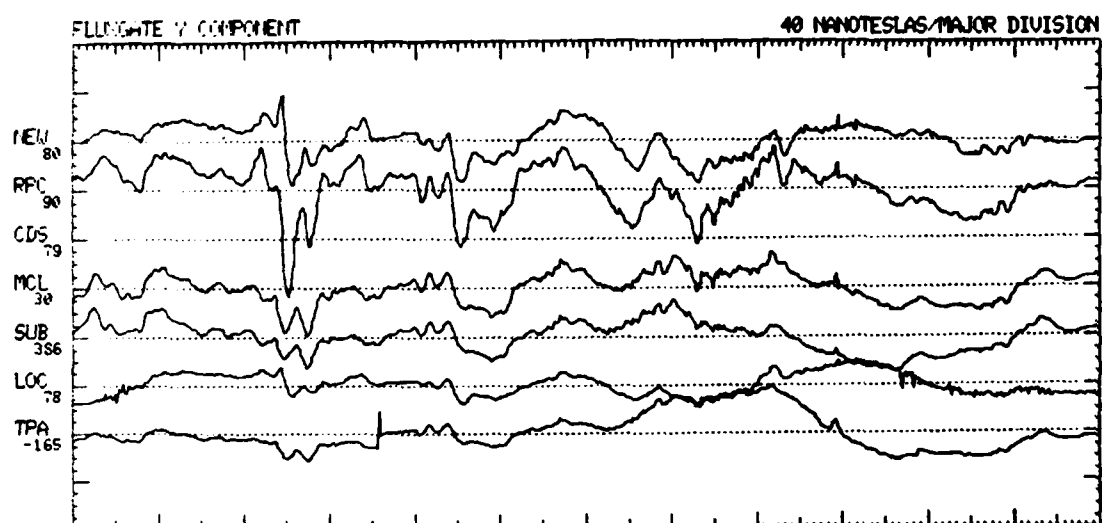
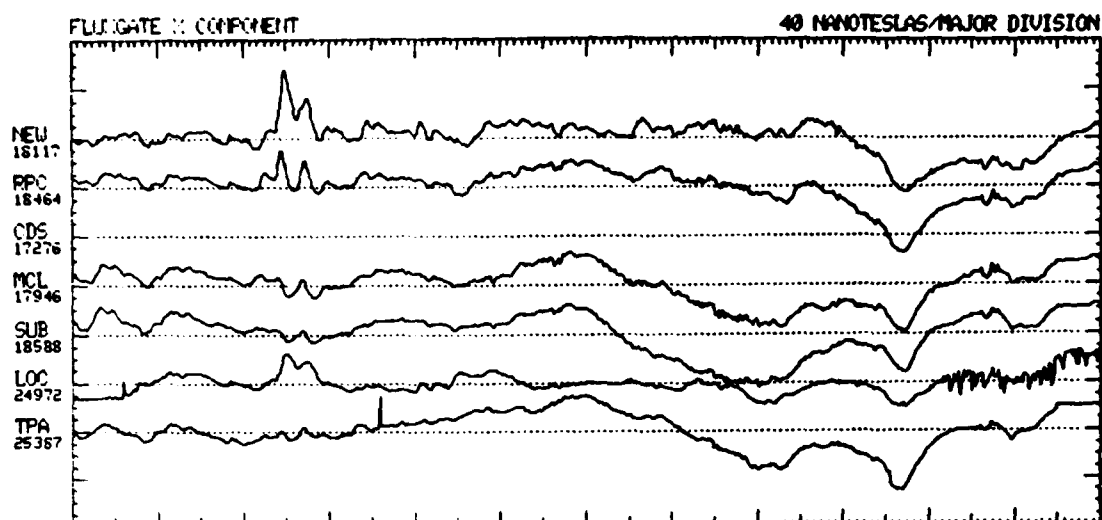


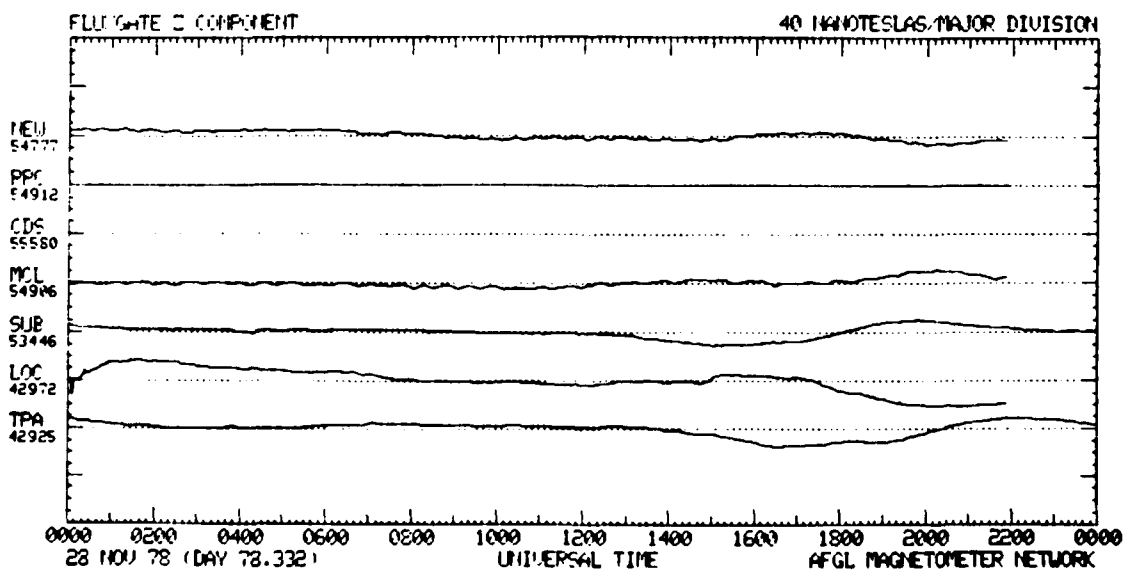
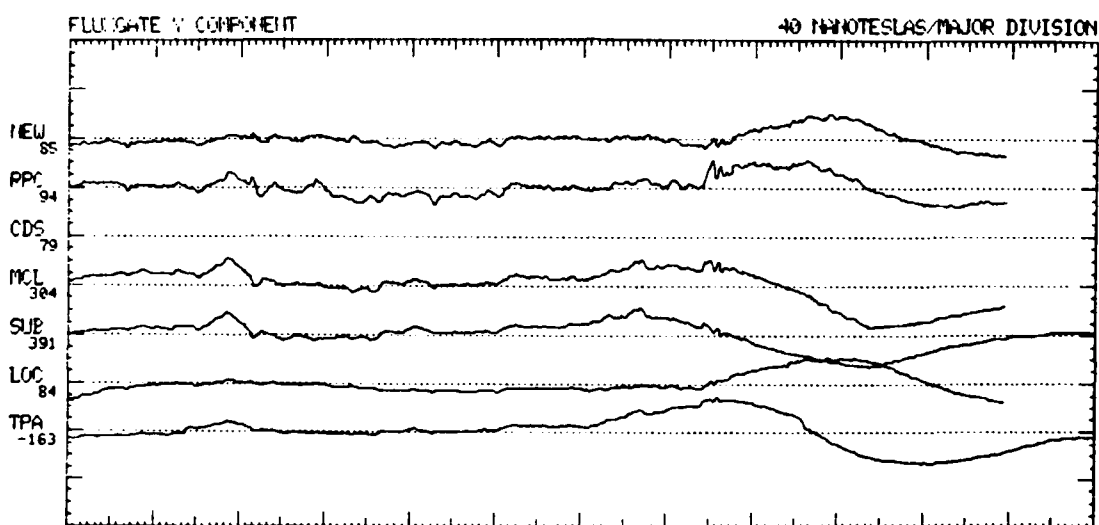
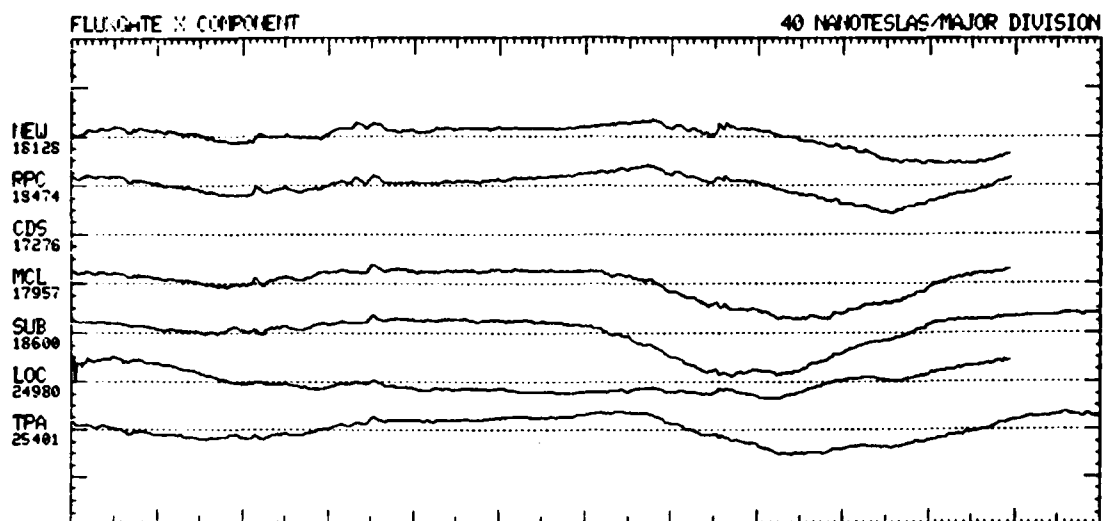


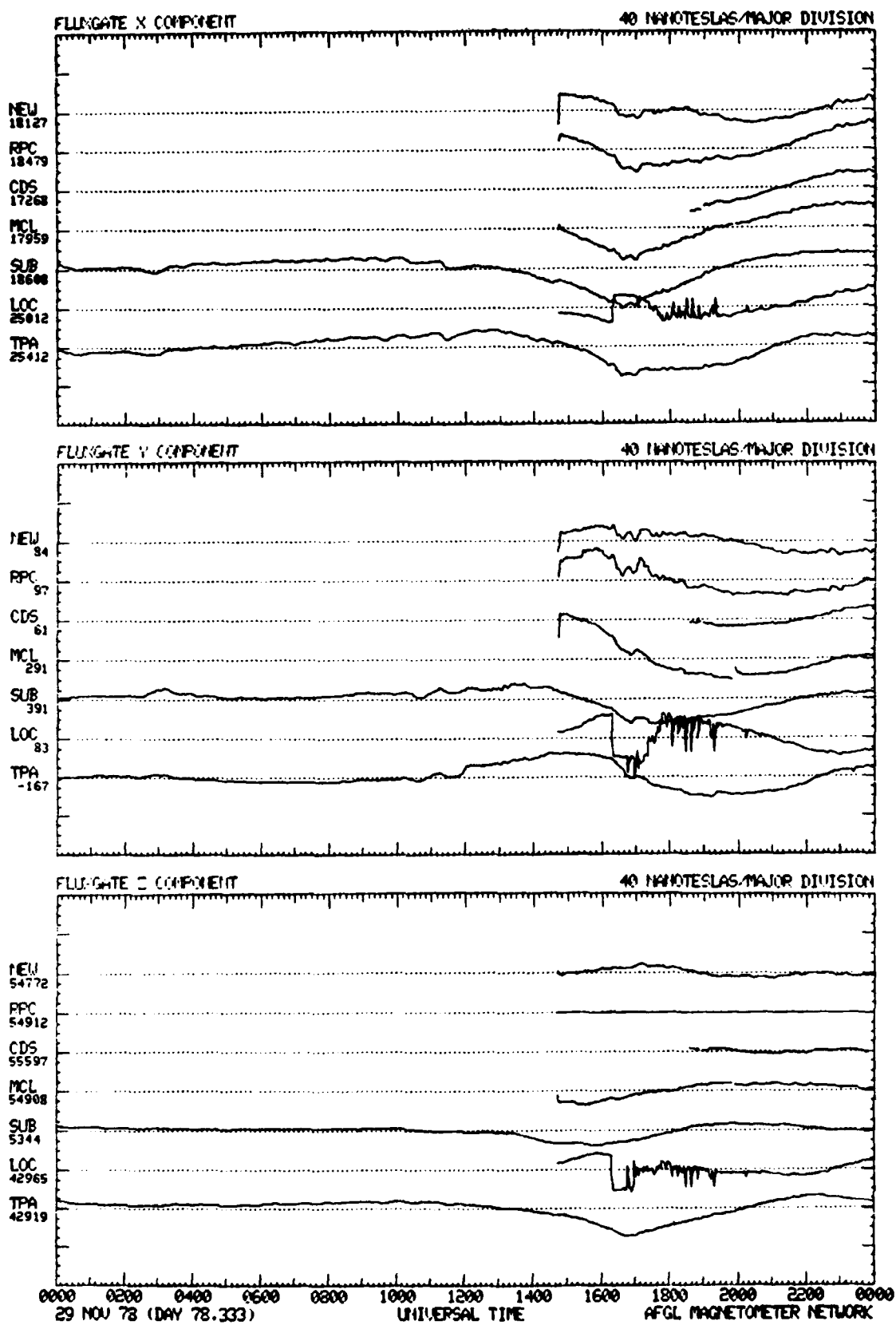


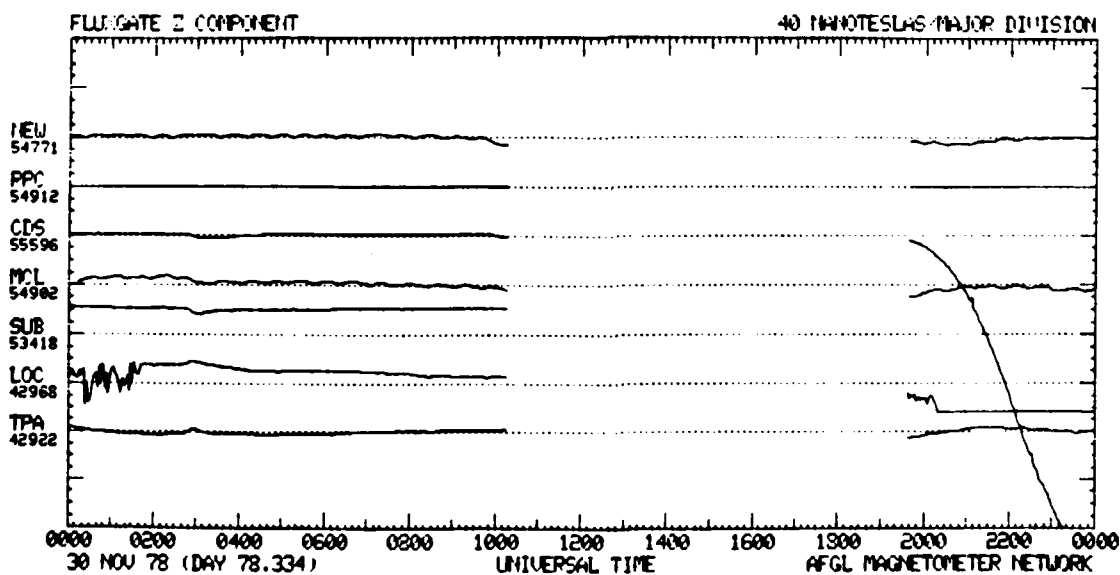
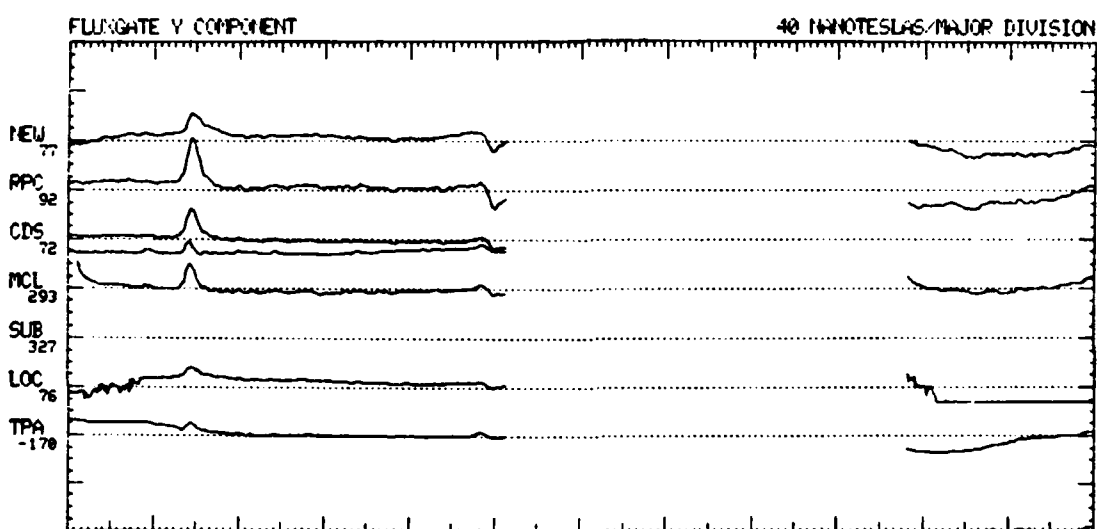
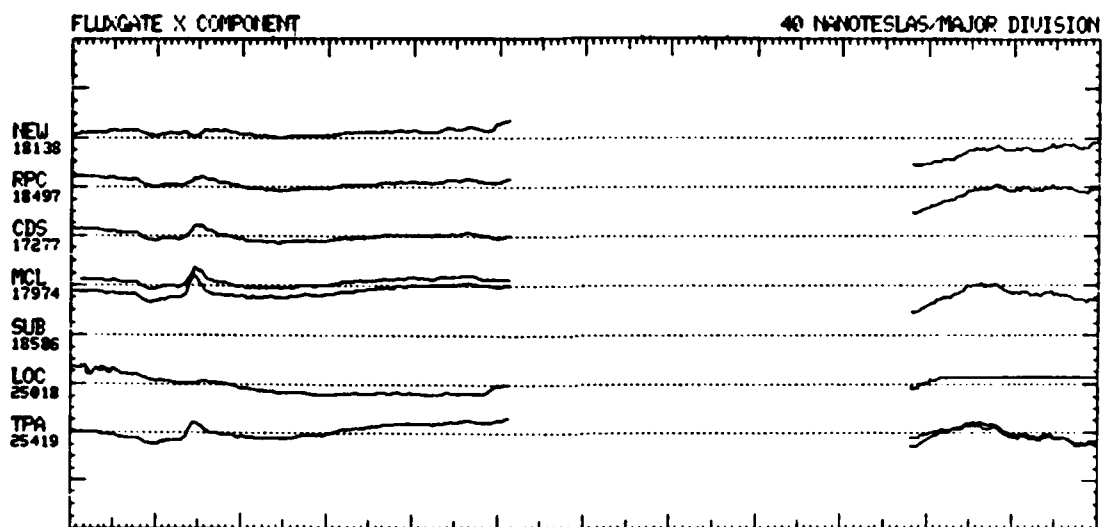


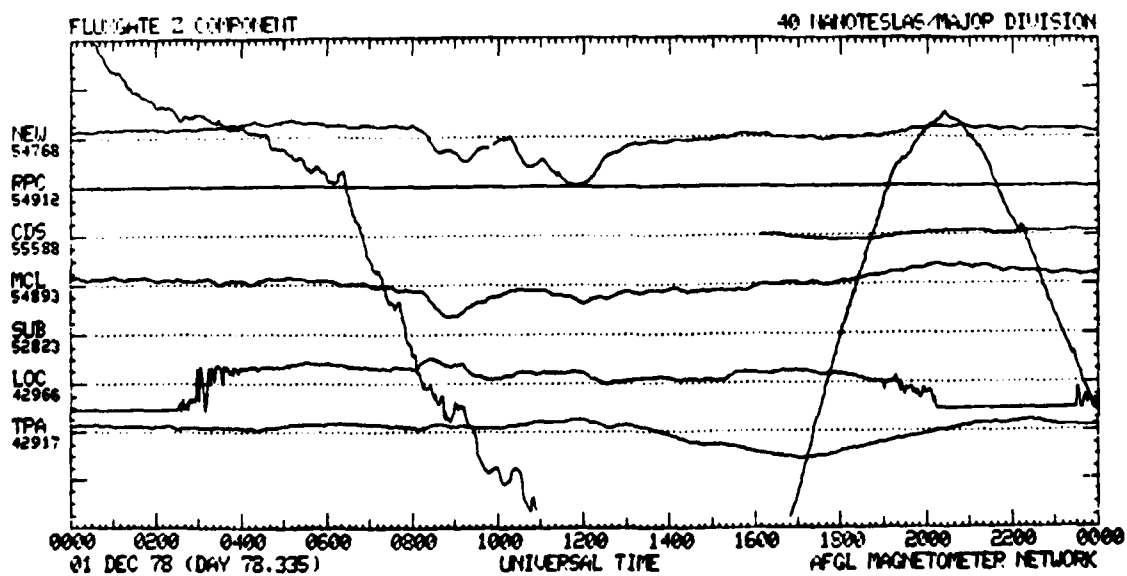
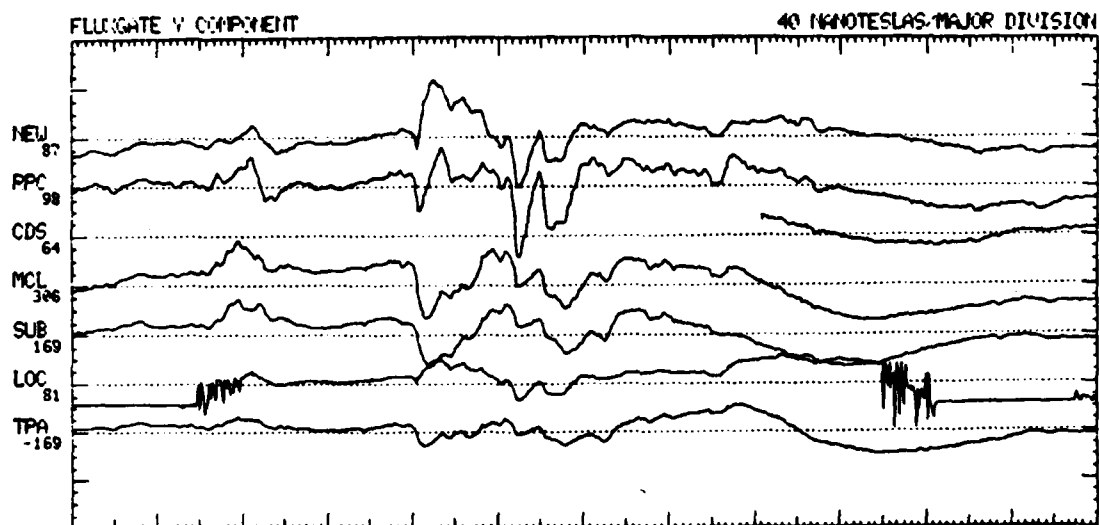
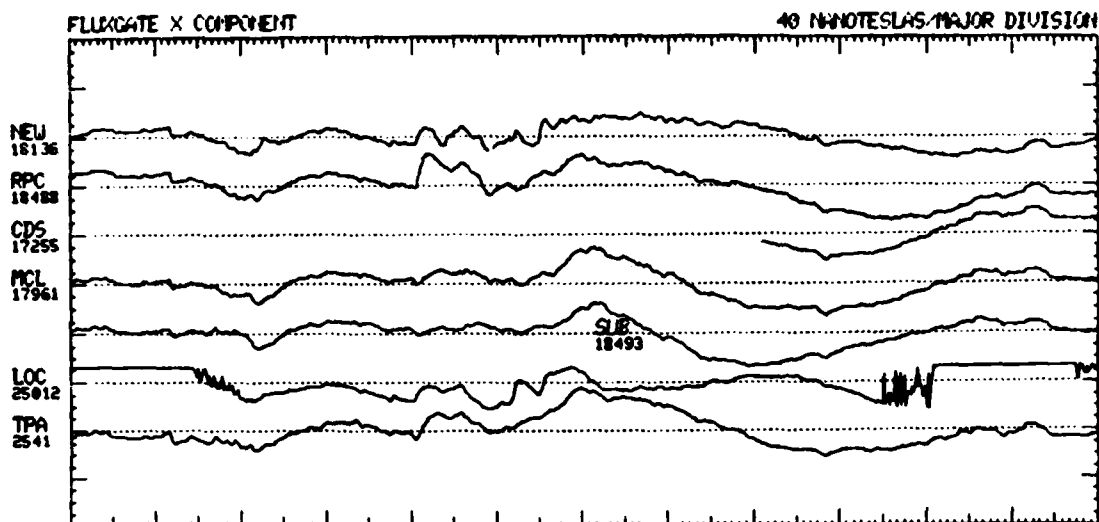


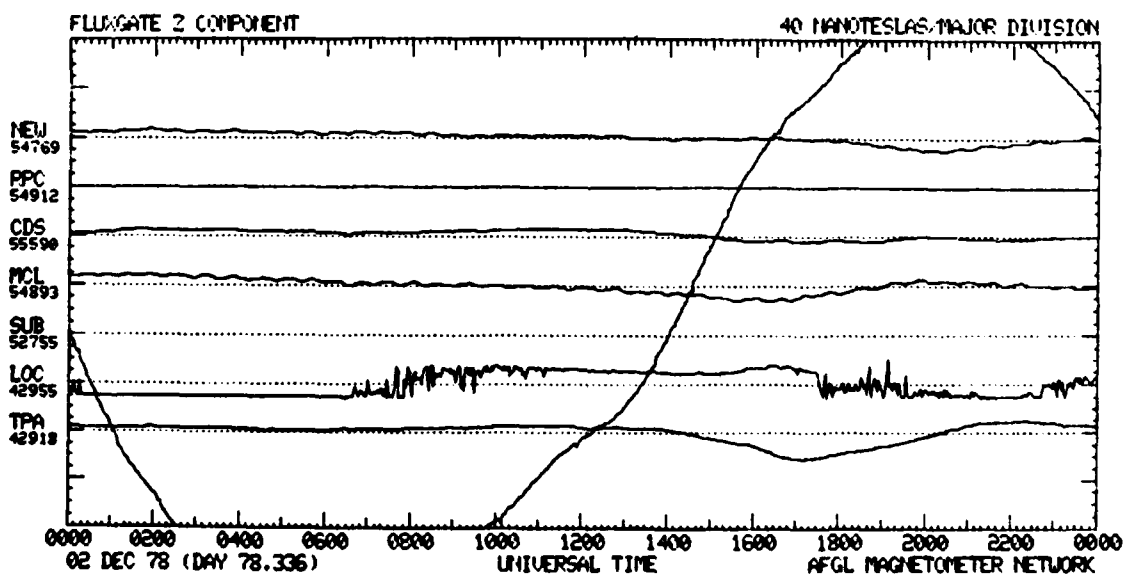
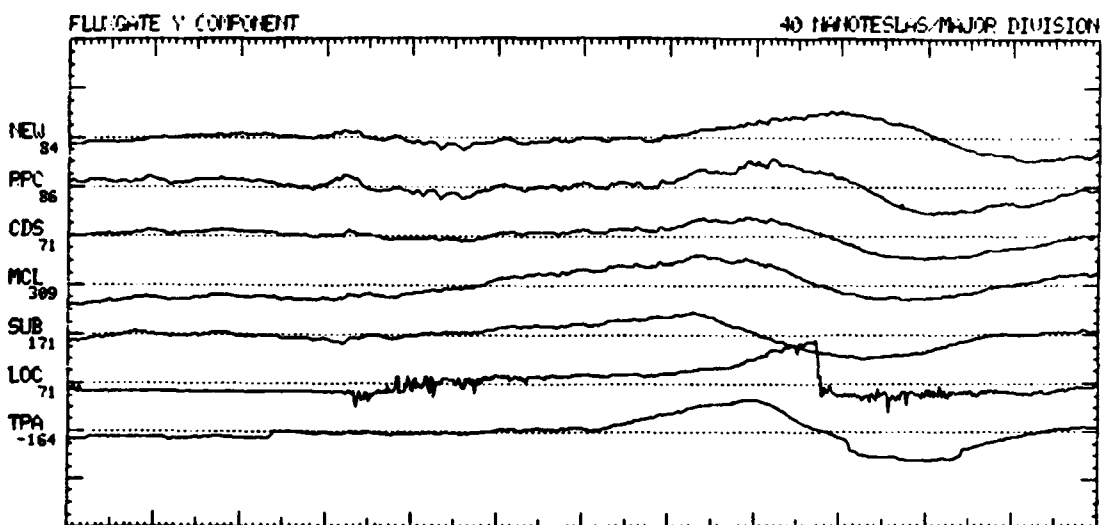
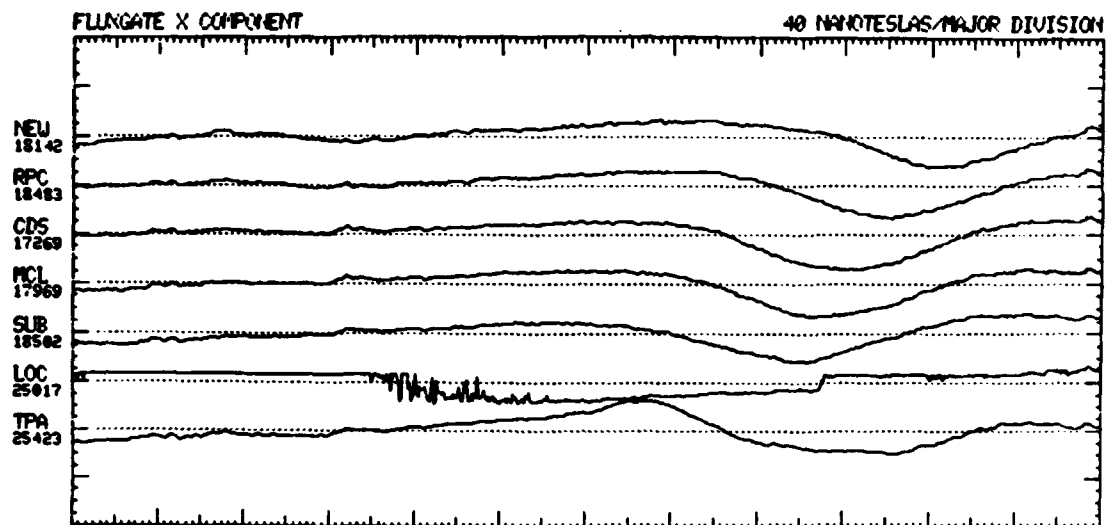


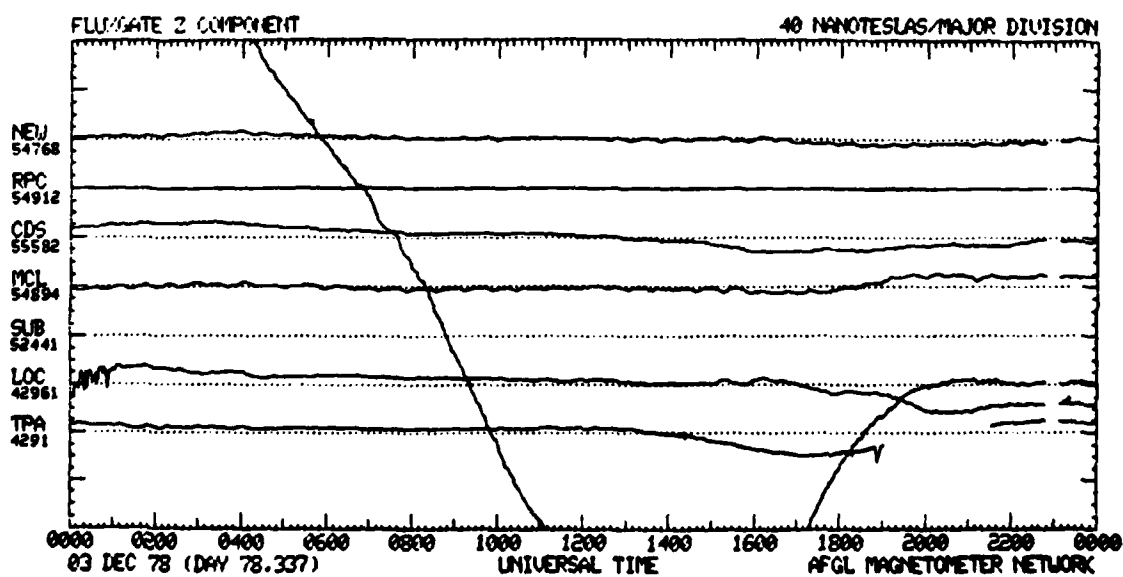
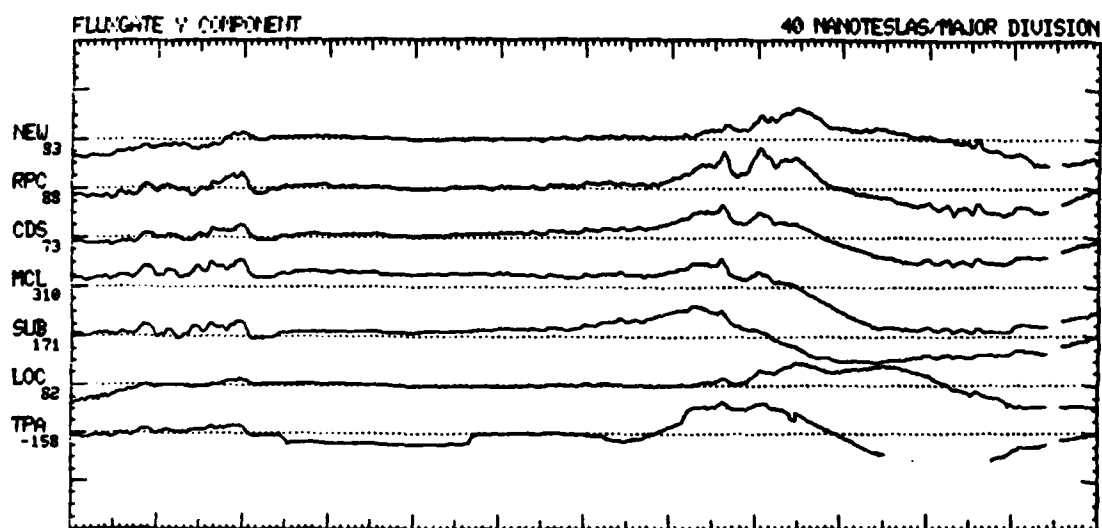
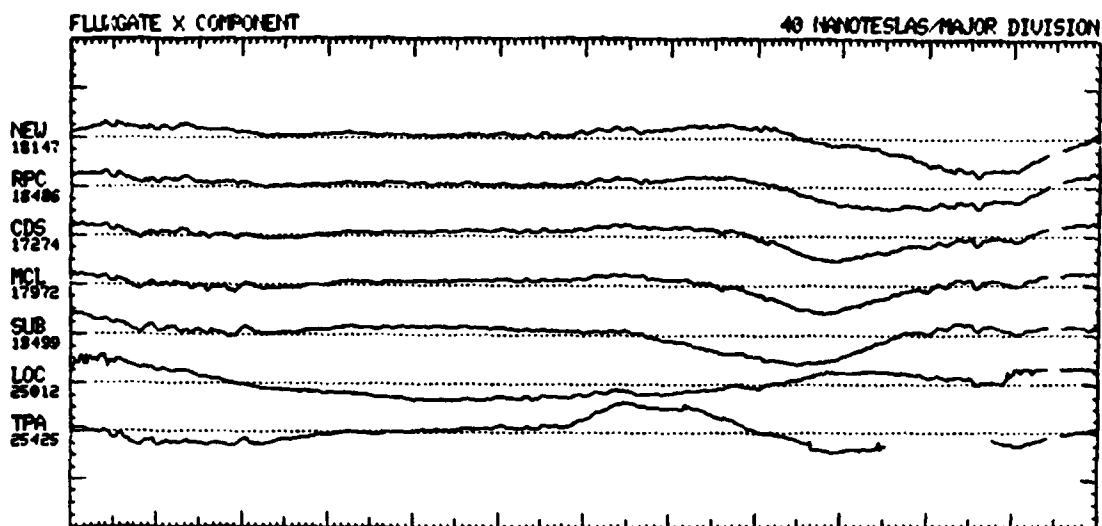


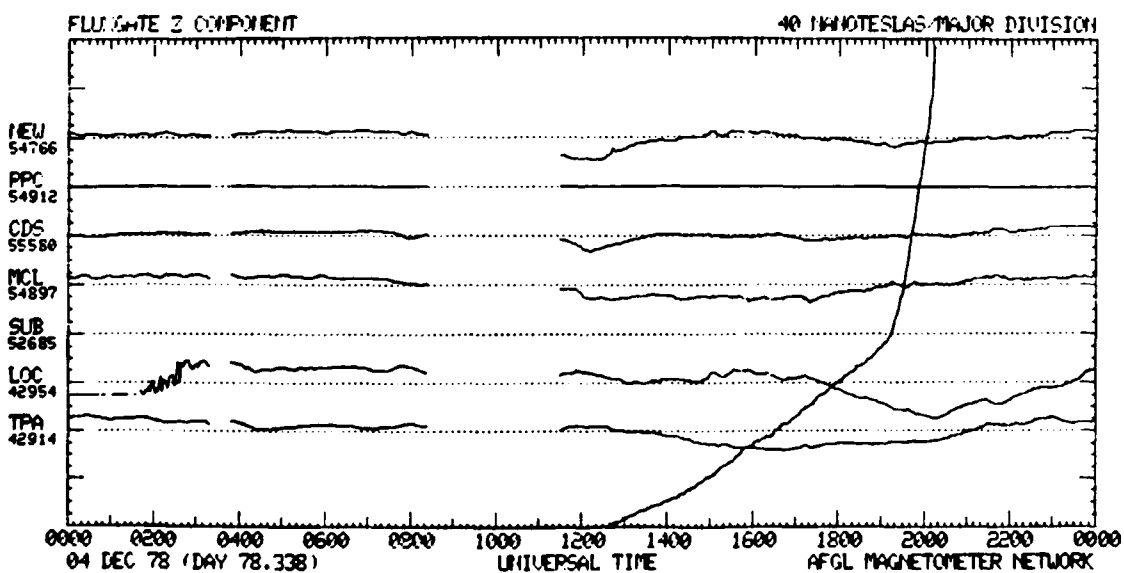
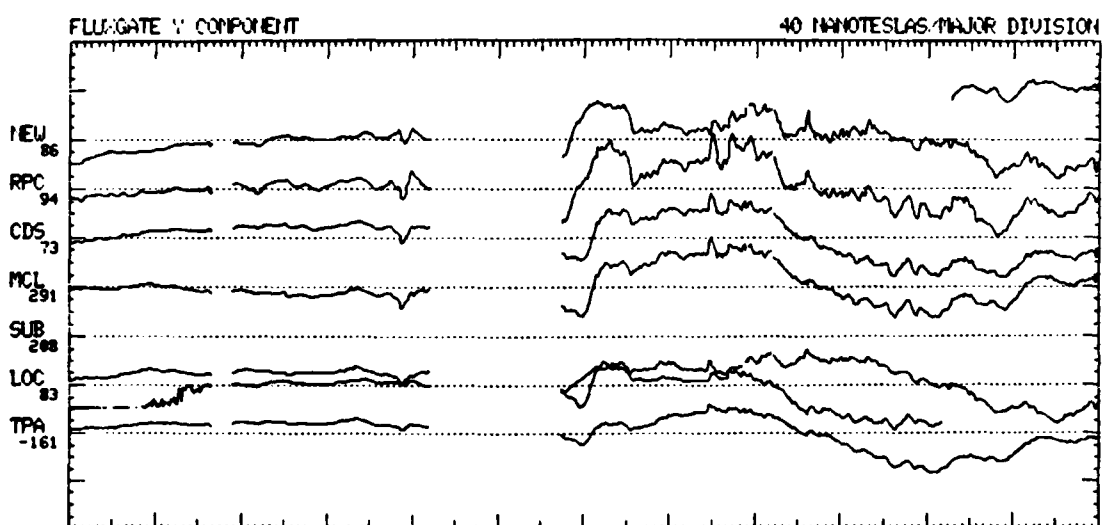
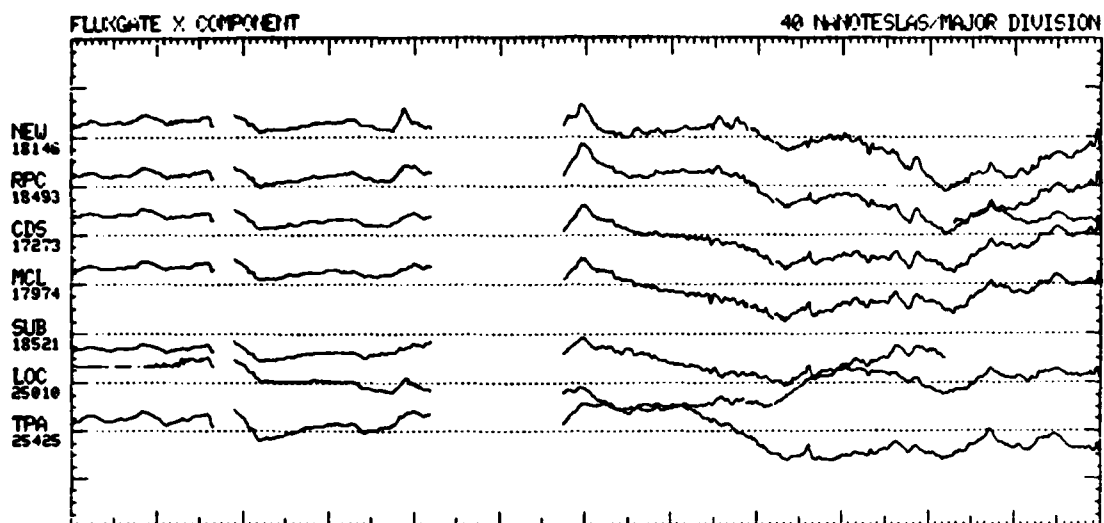


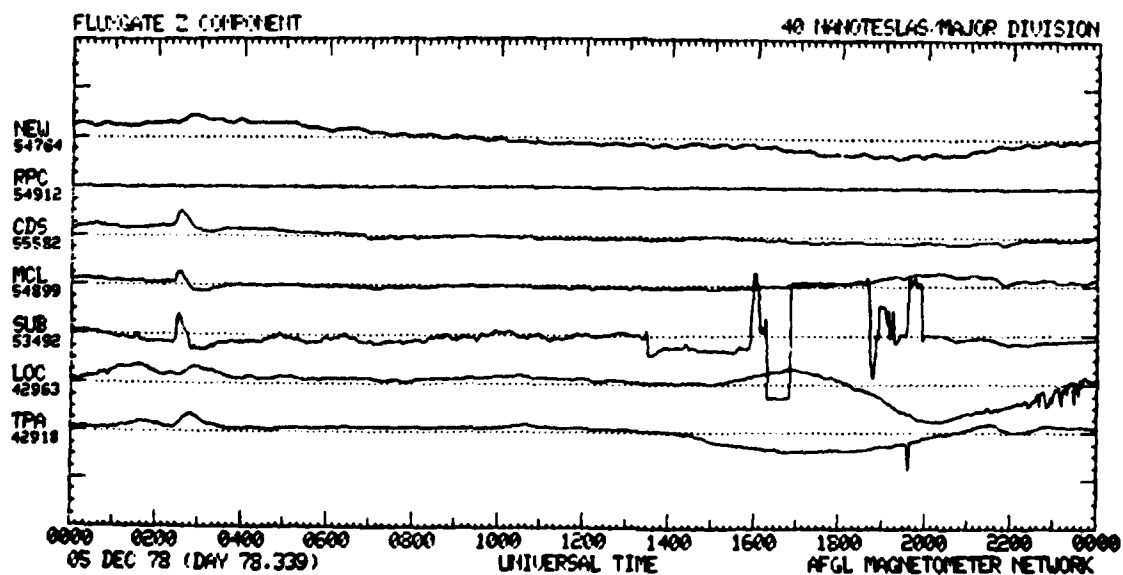
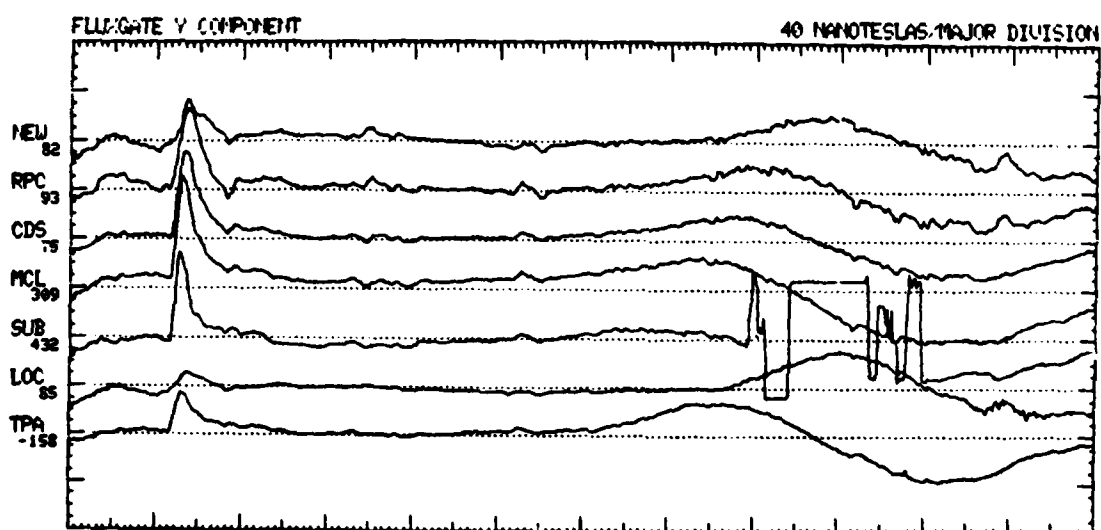
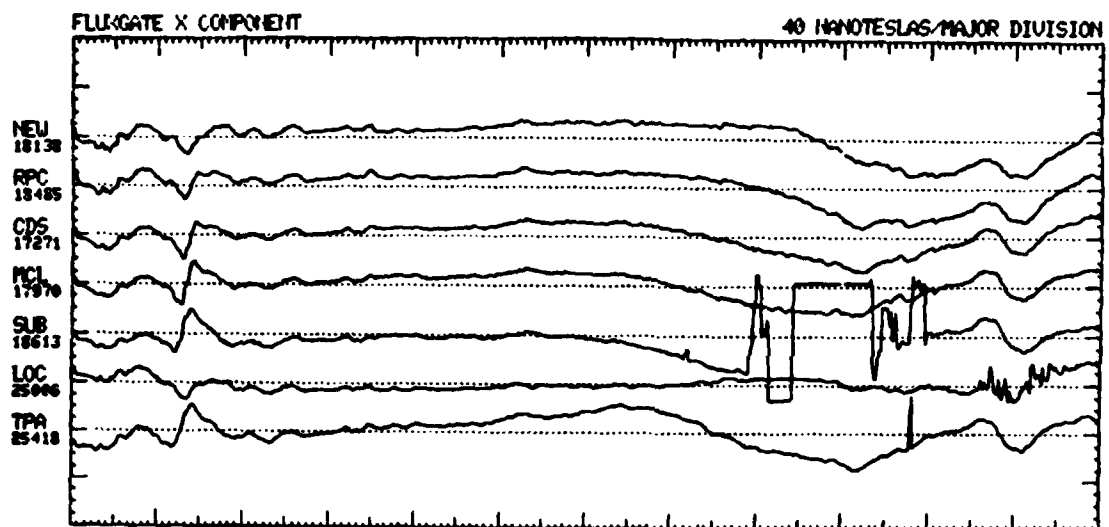


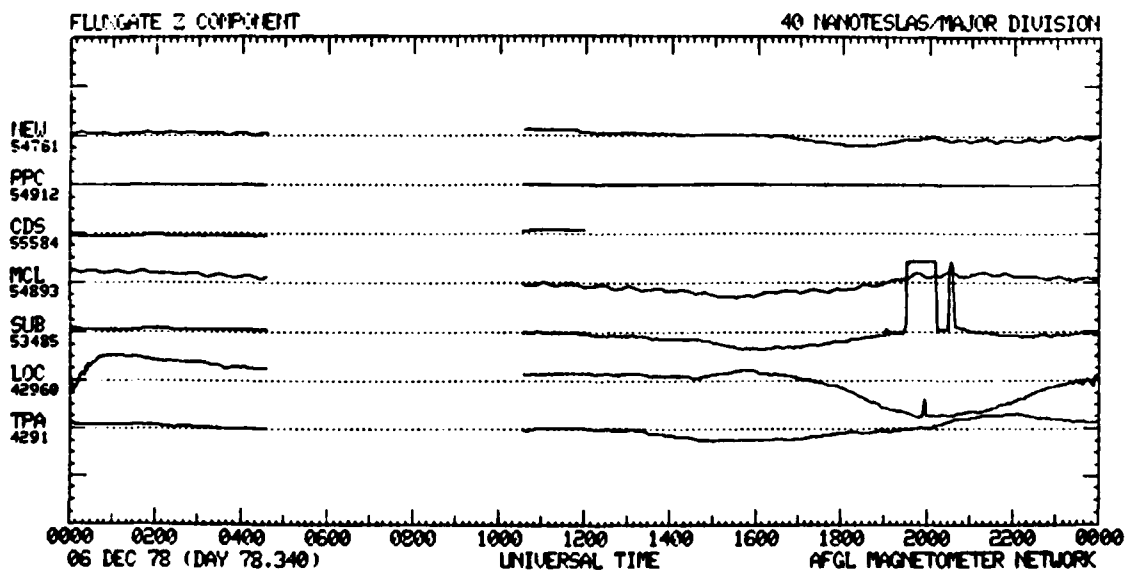
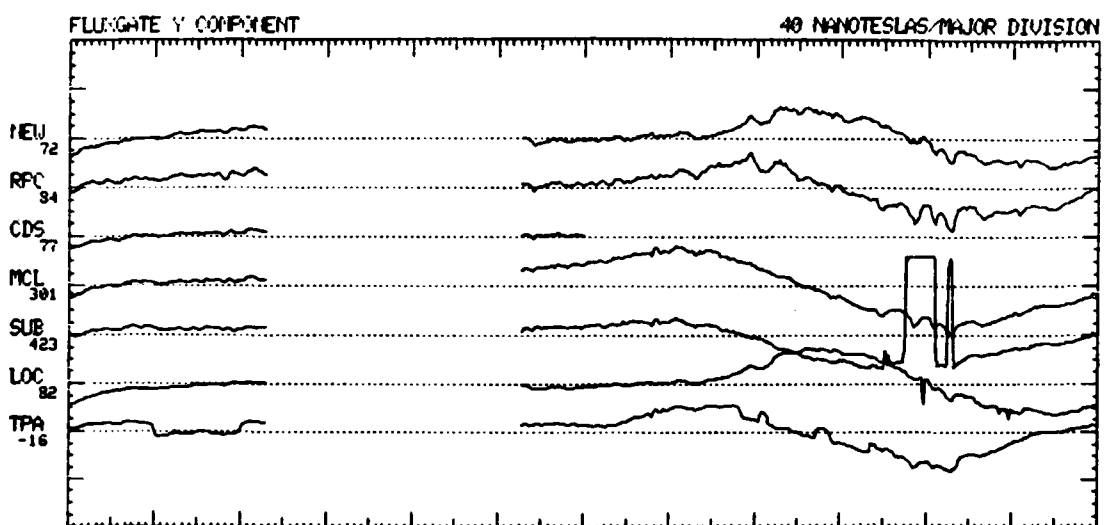
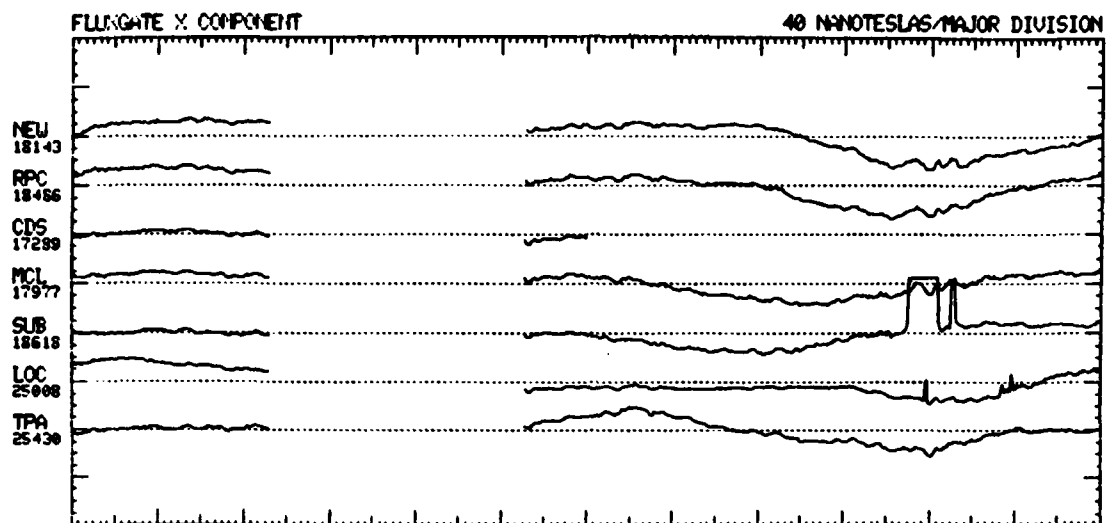


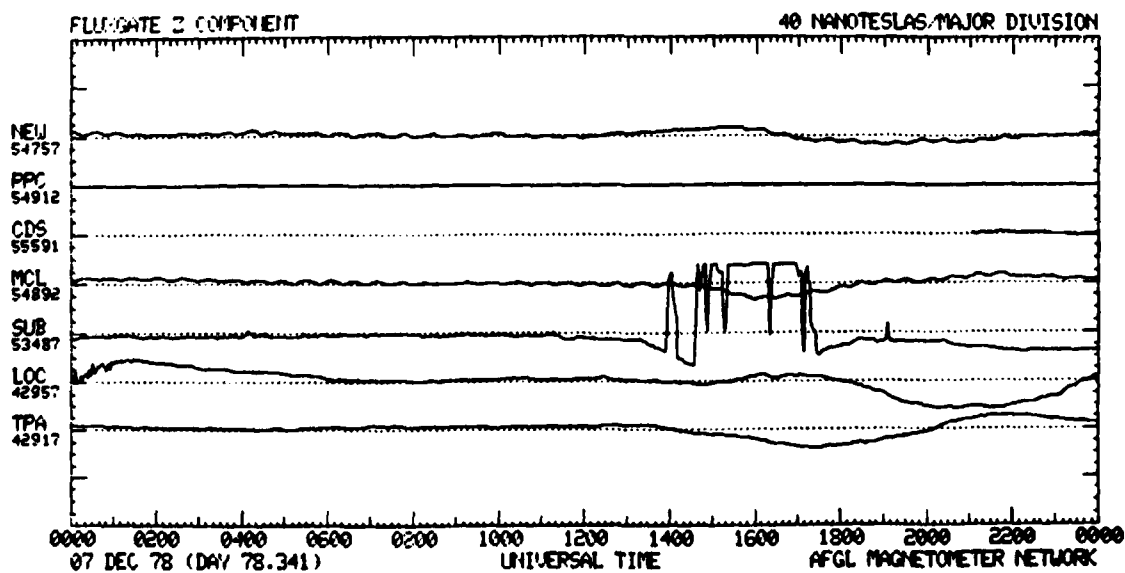
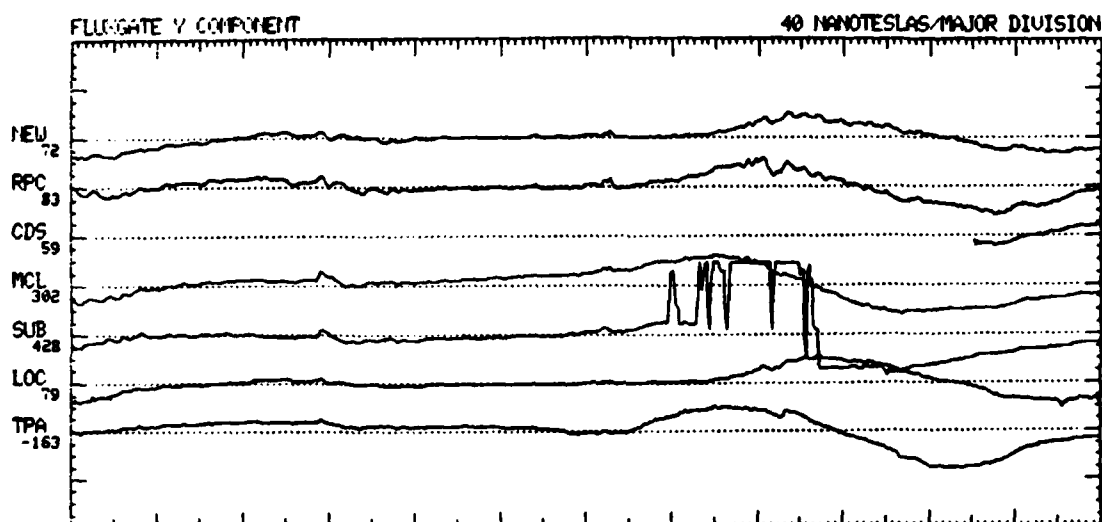
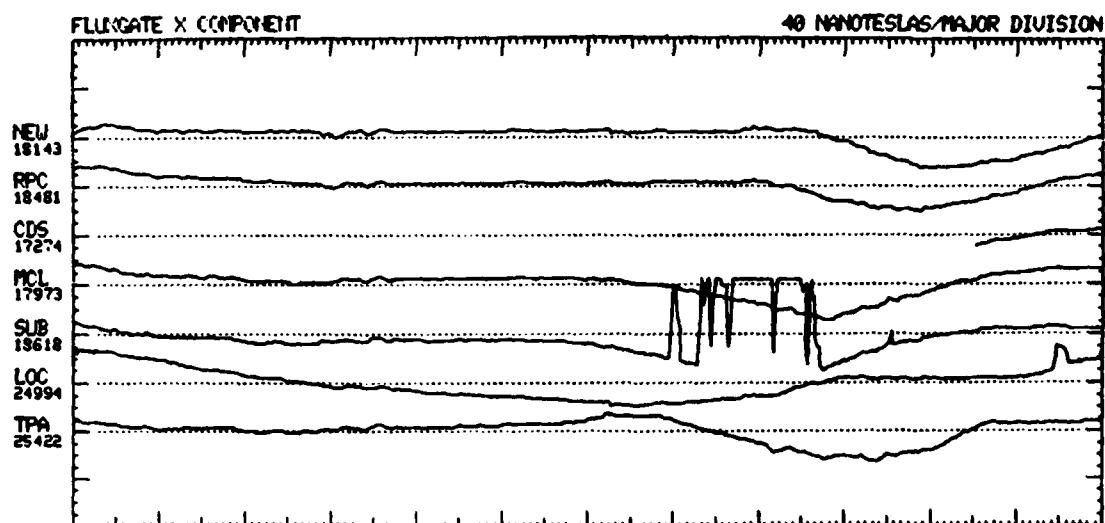


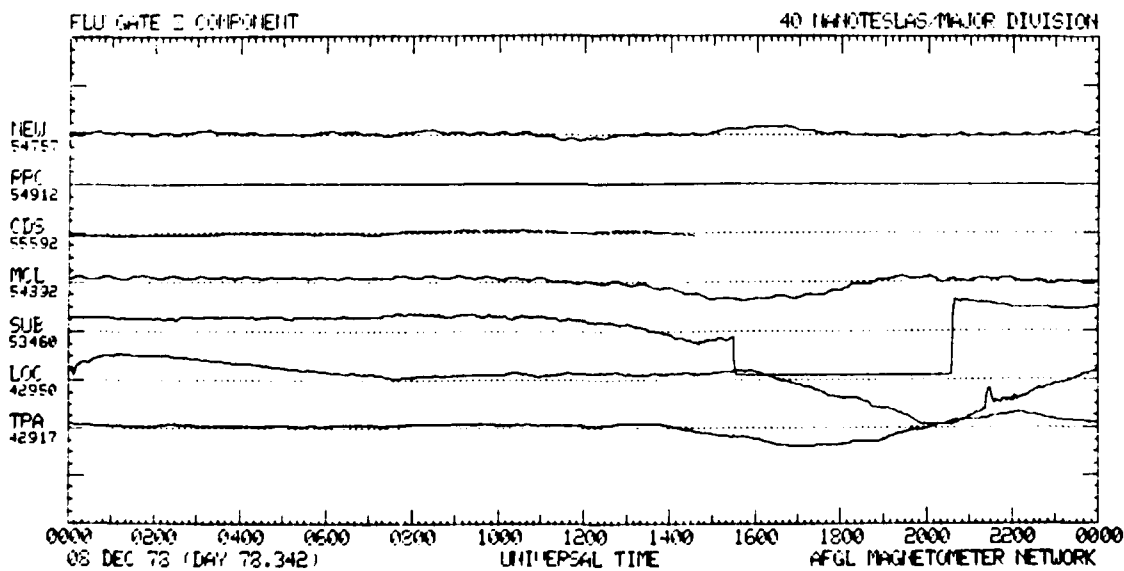
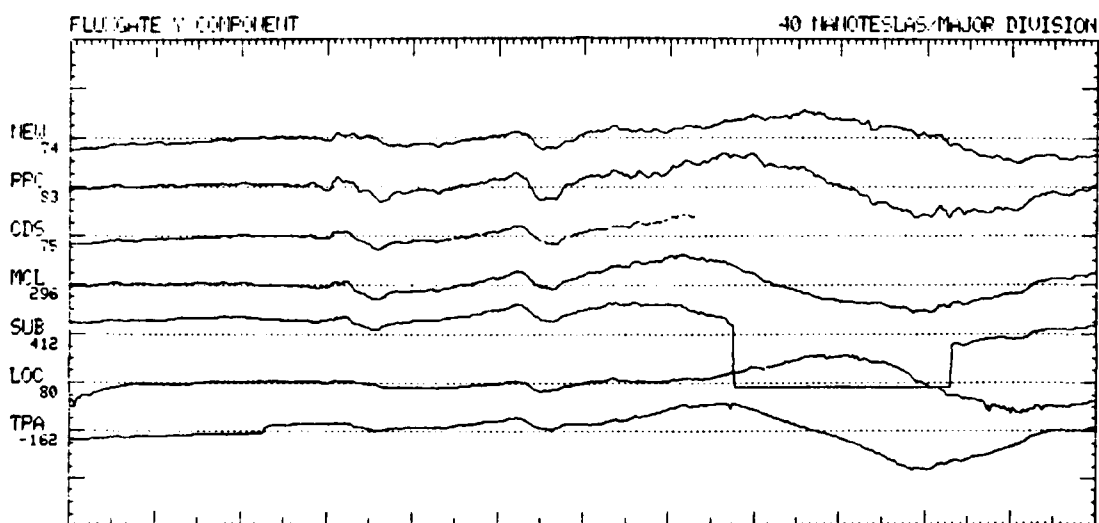
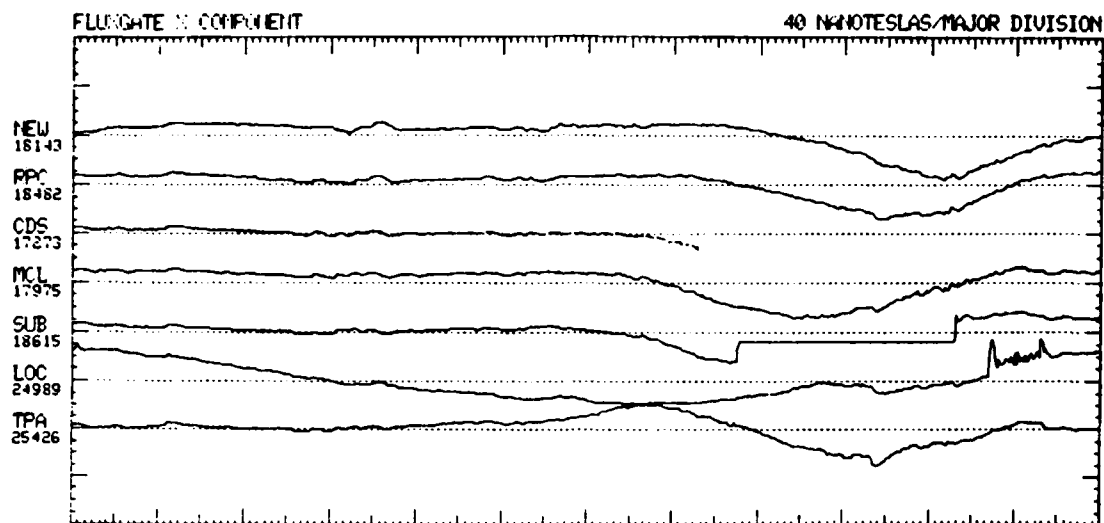


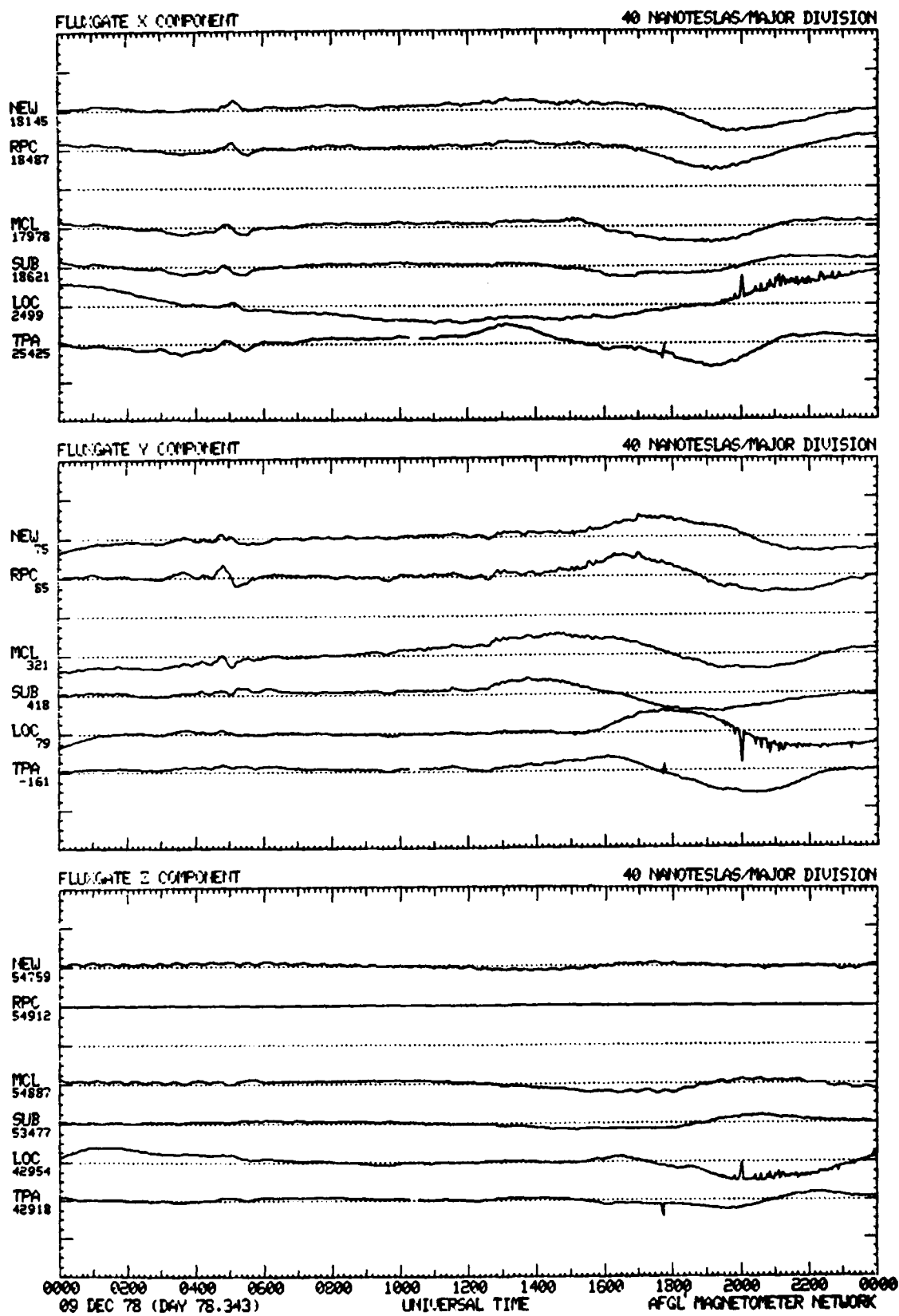


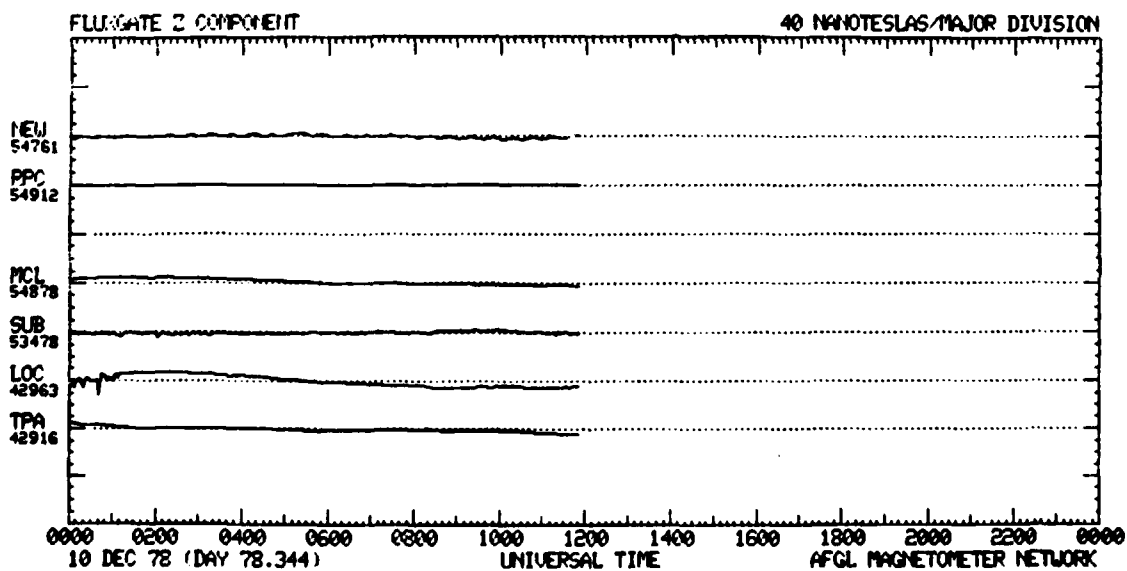
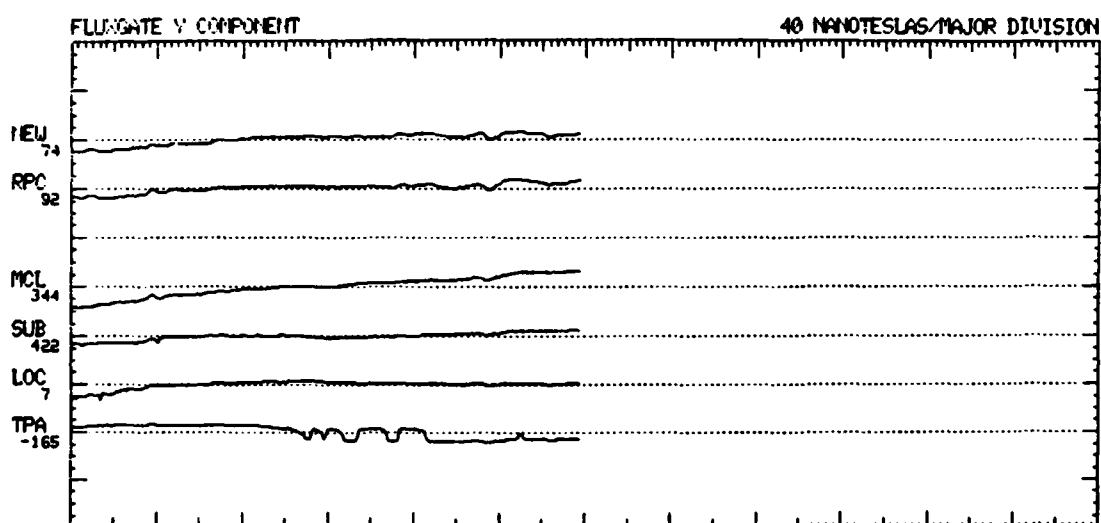
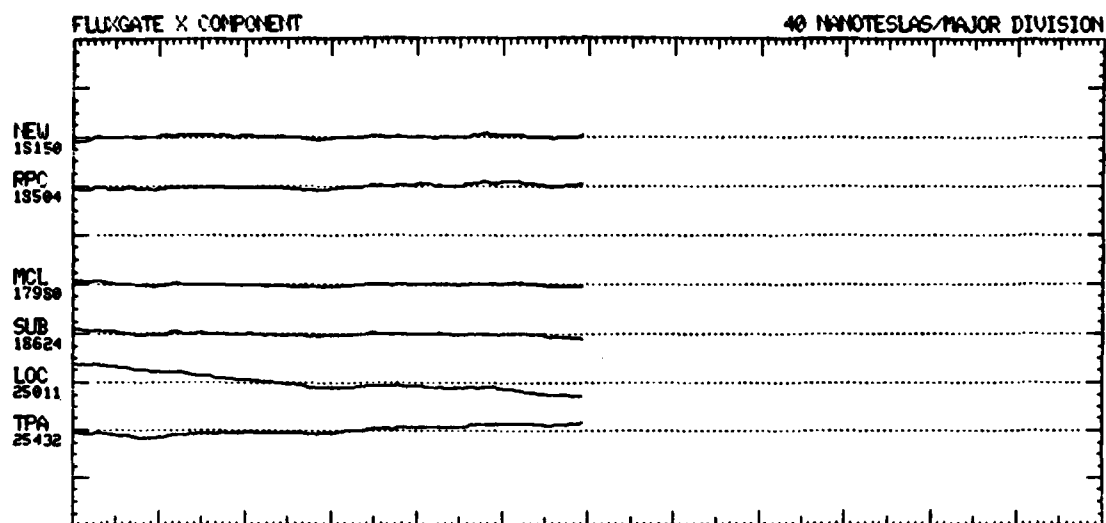


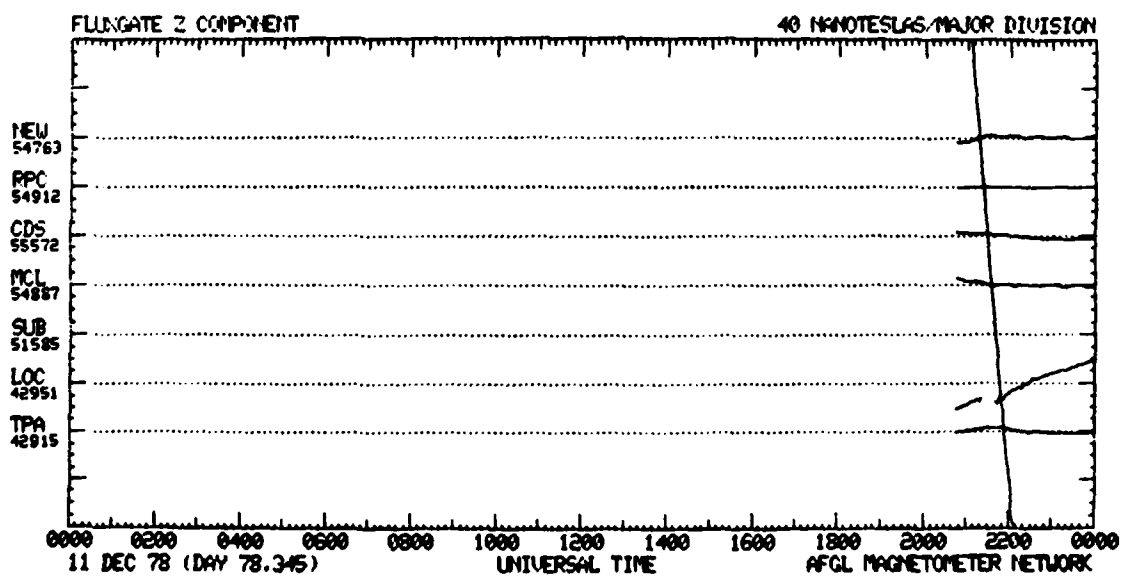
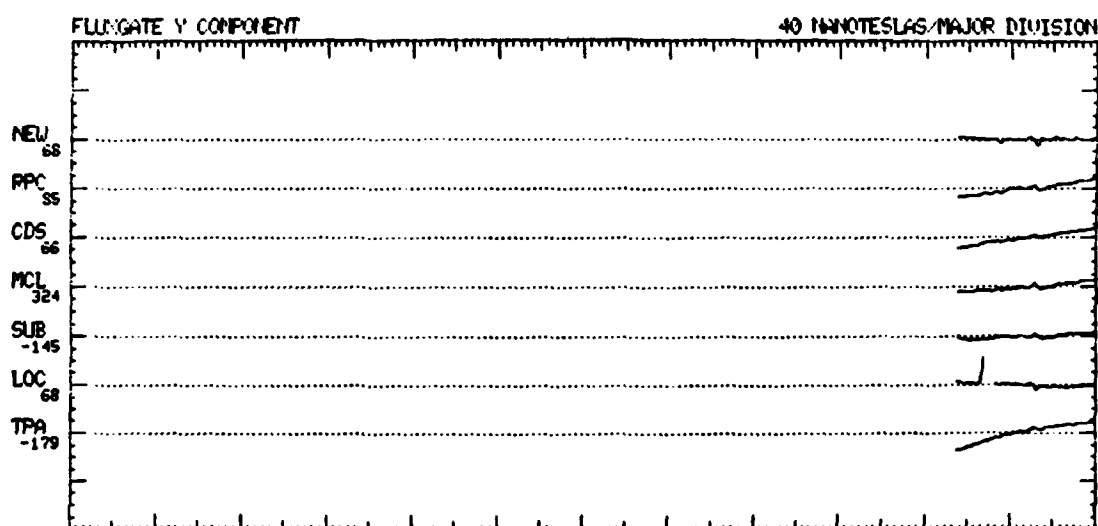
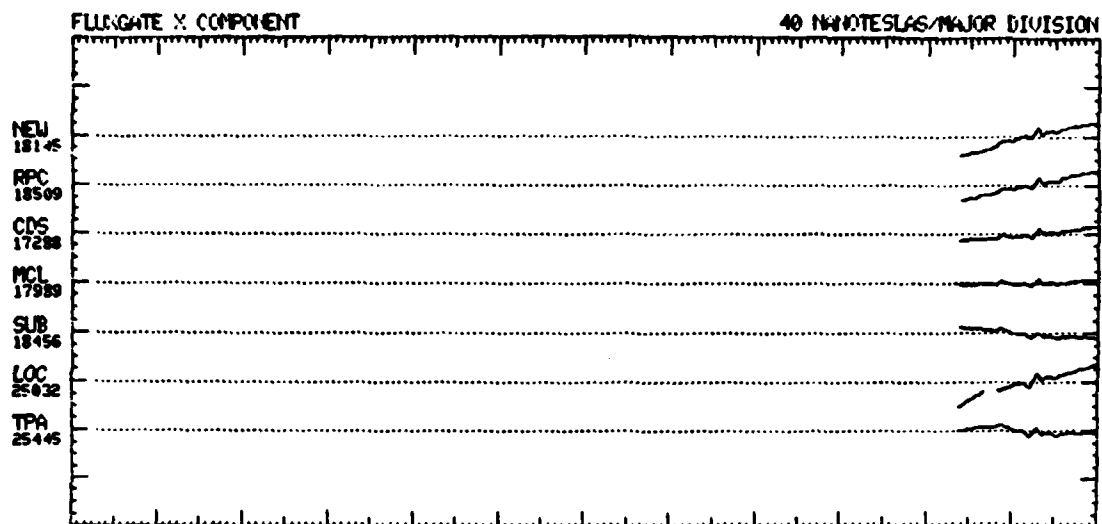


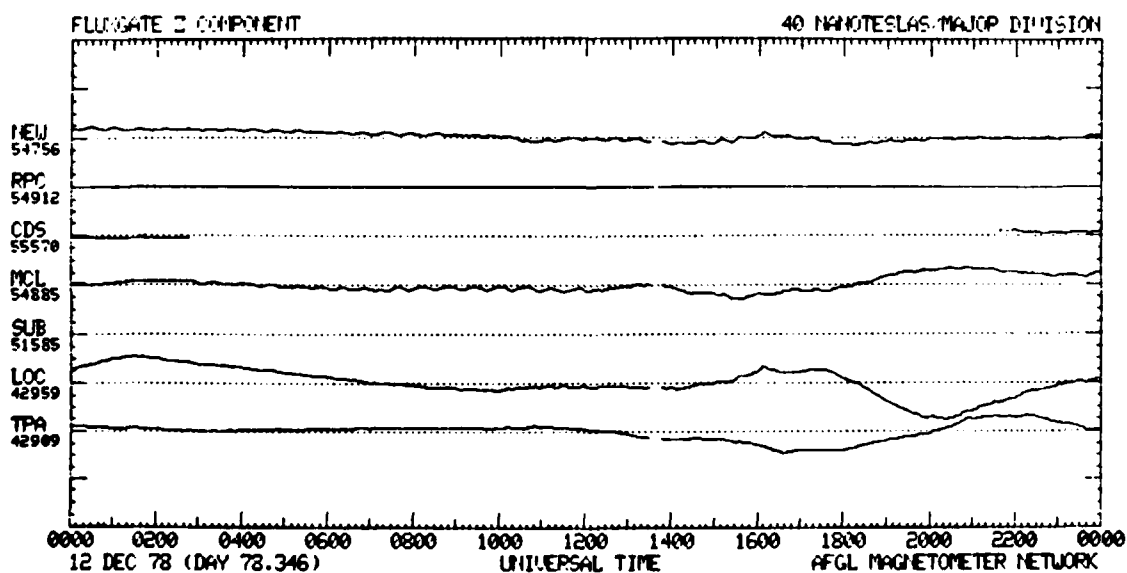
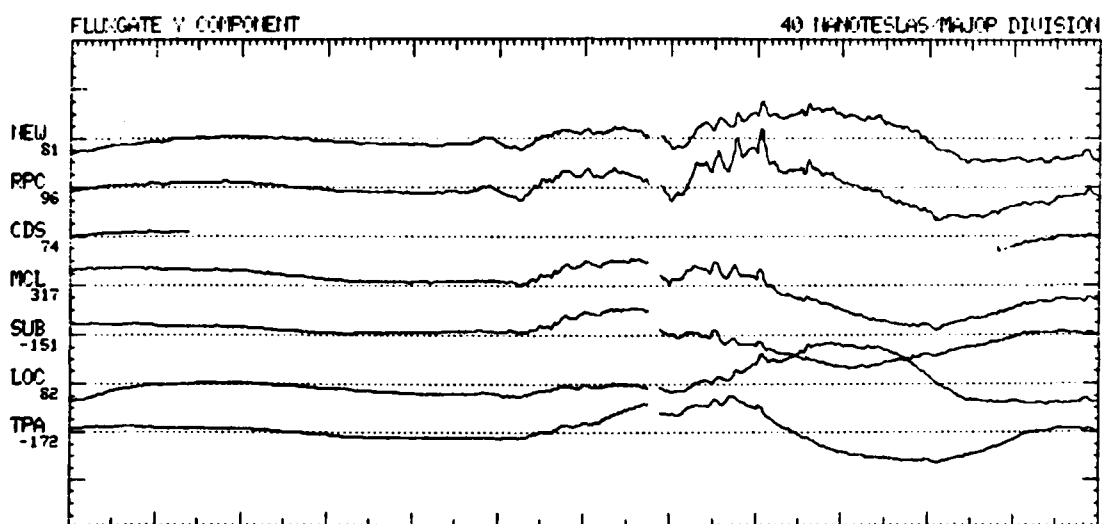
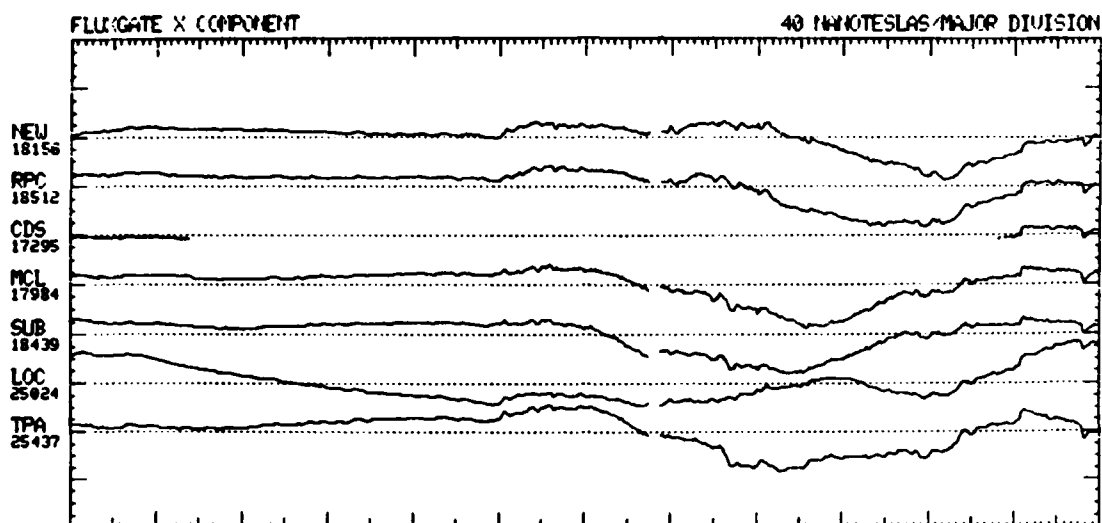


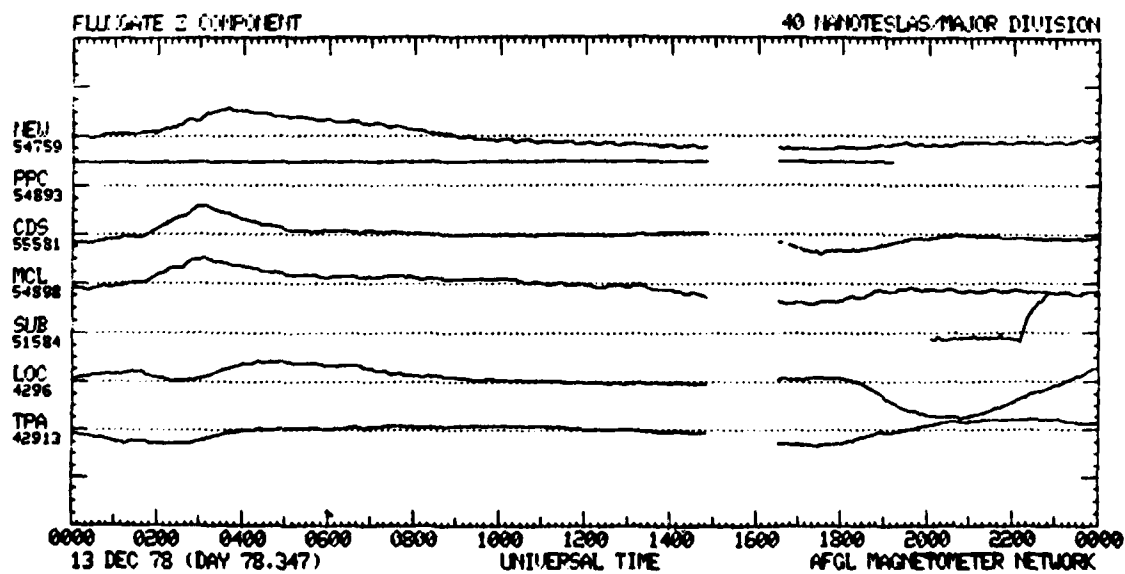
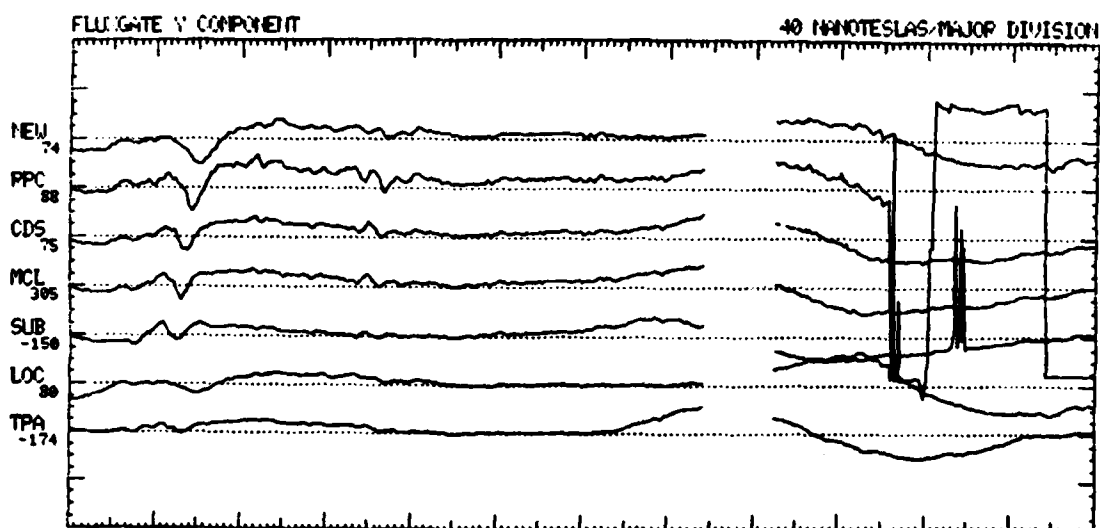
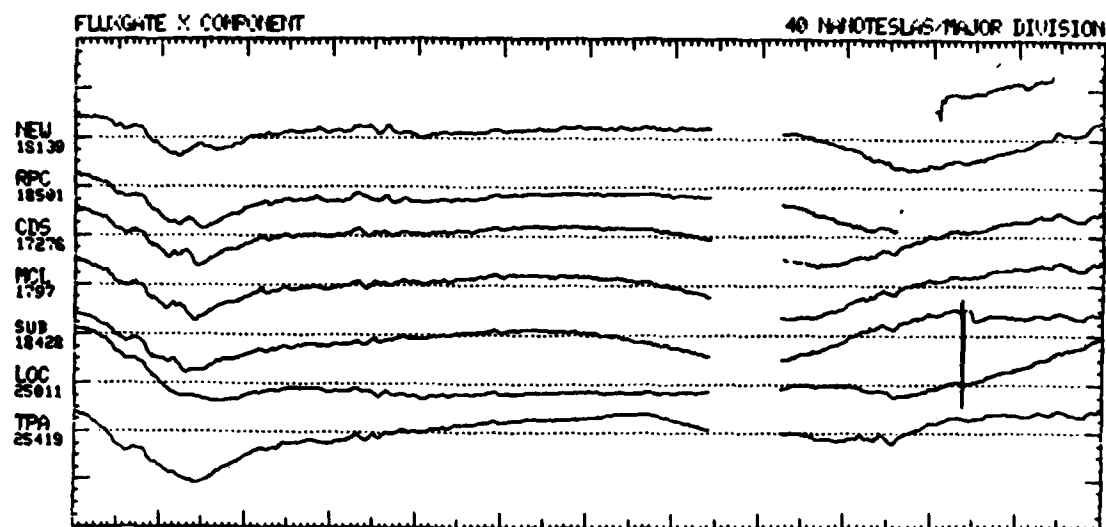


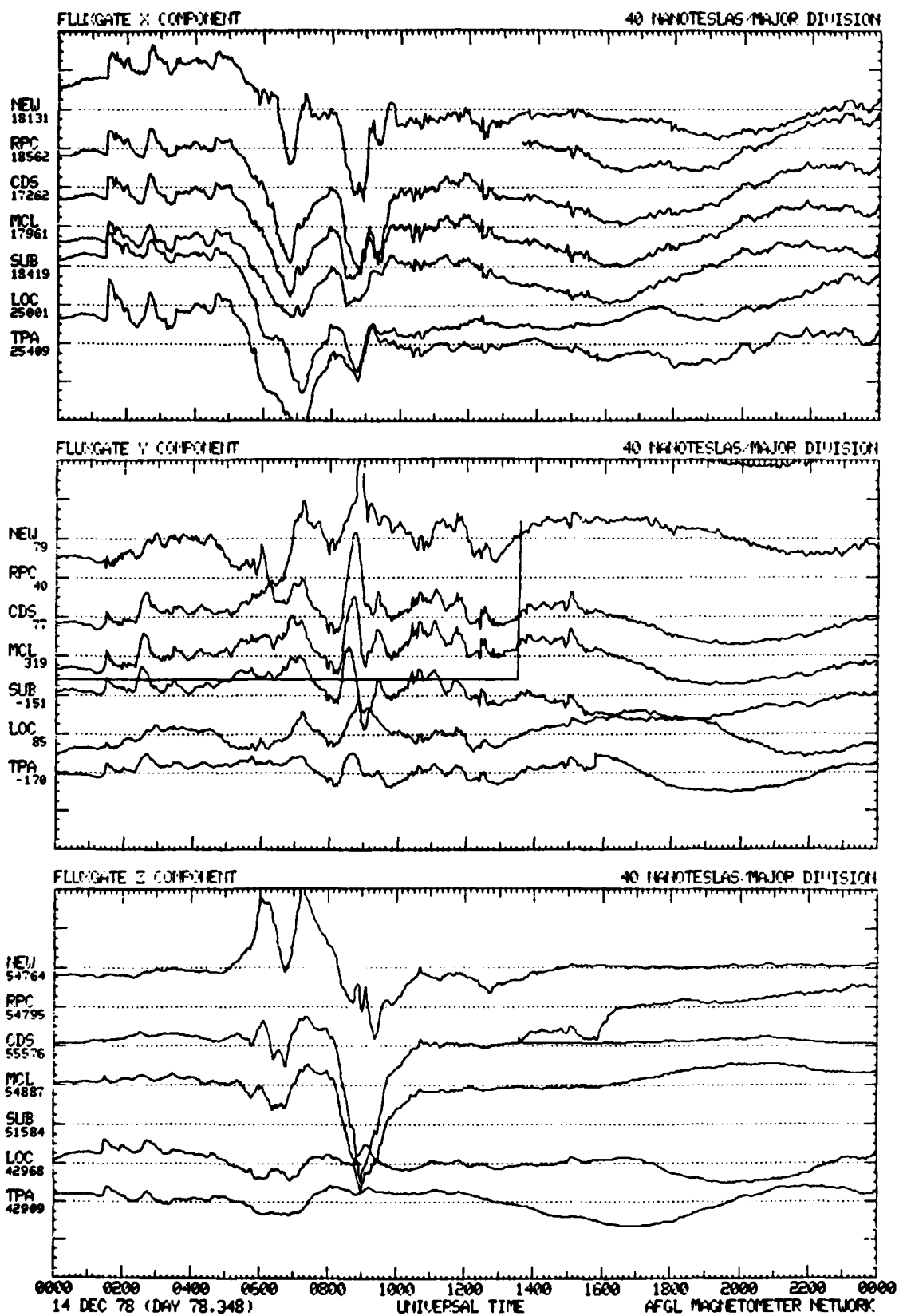








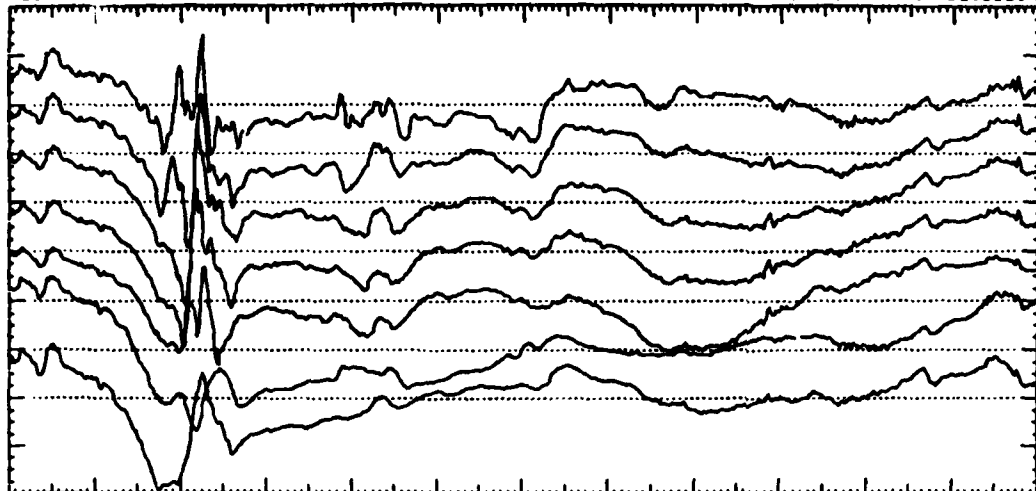




FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

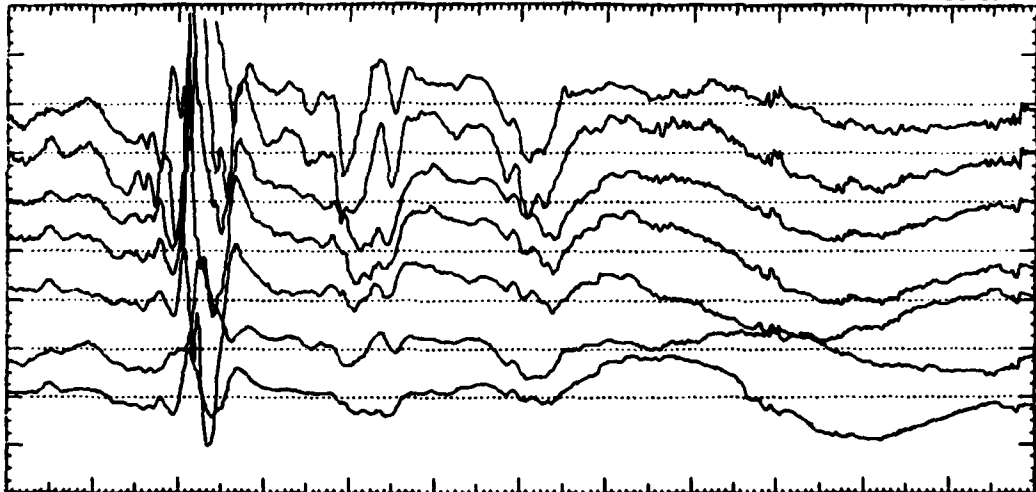
NEW
18116
RPC
18563
CDS
17299
MCL
17947
SUB
18398
LOC
24982
TPA
25387



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

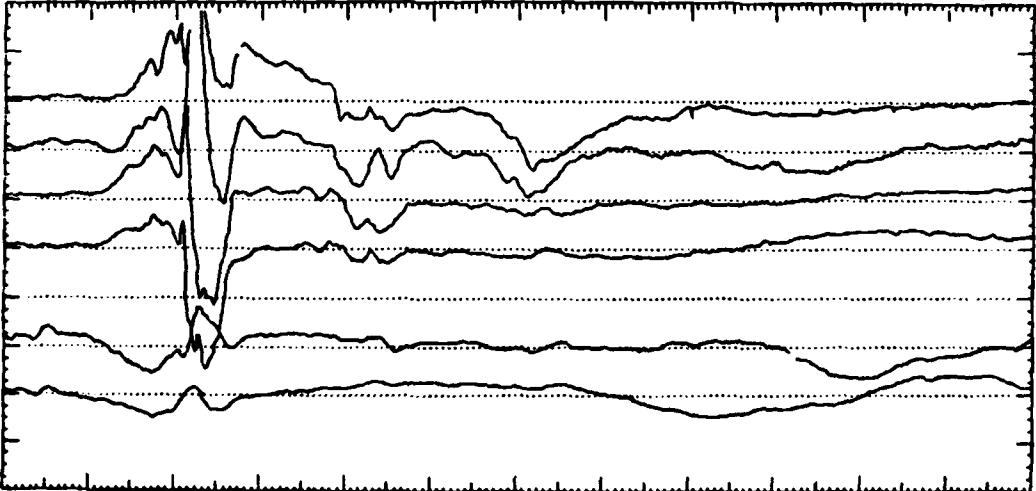
NEW
83
RPC
179
CDS
74
MCL
362
SUB
-158
LOC
83
TPA
-165



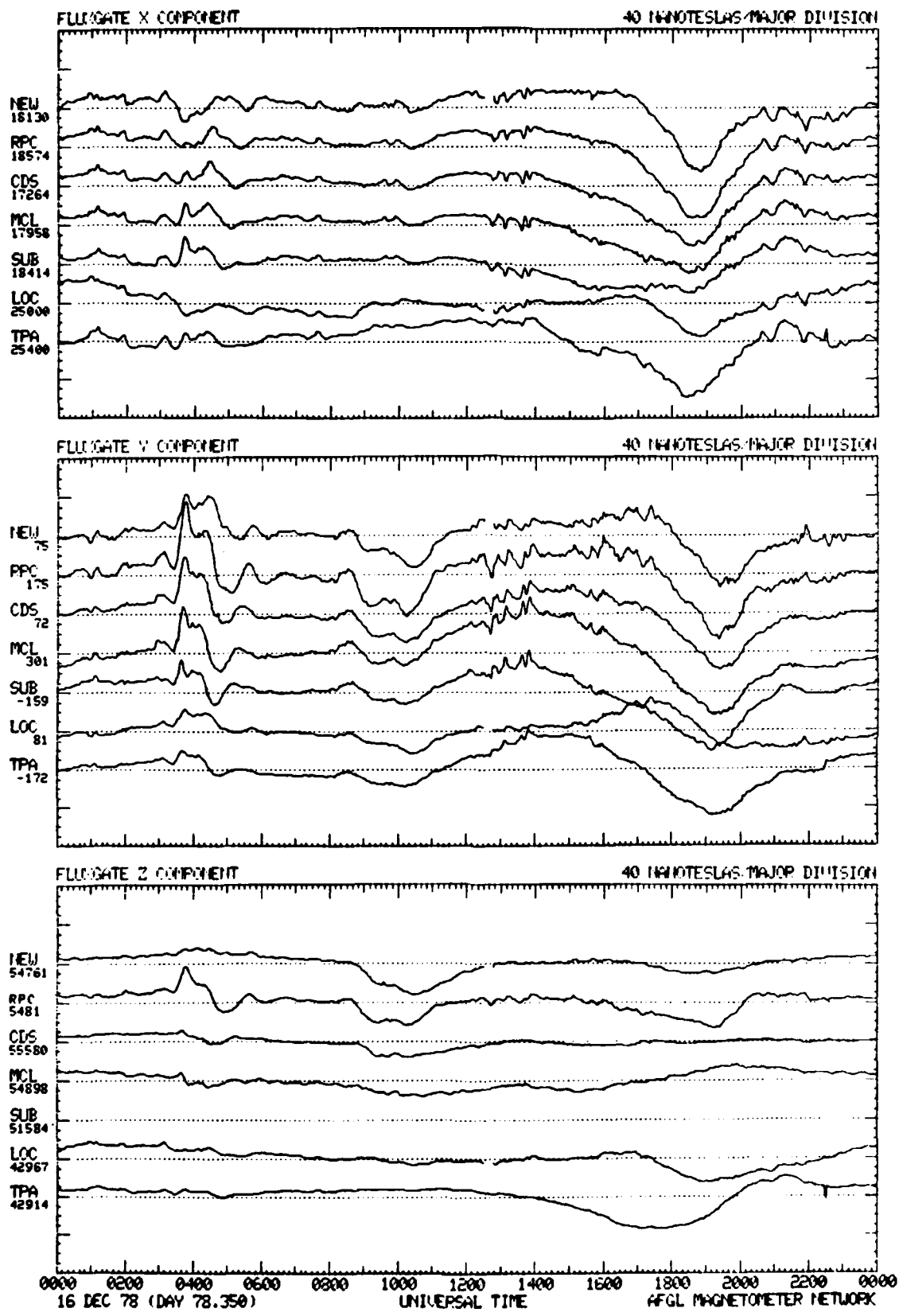
FLUXGATE Z COMPONENT

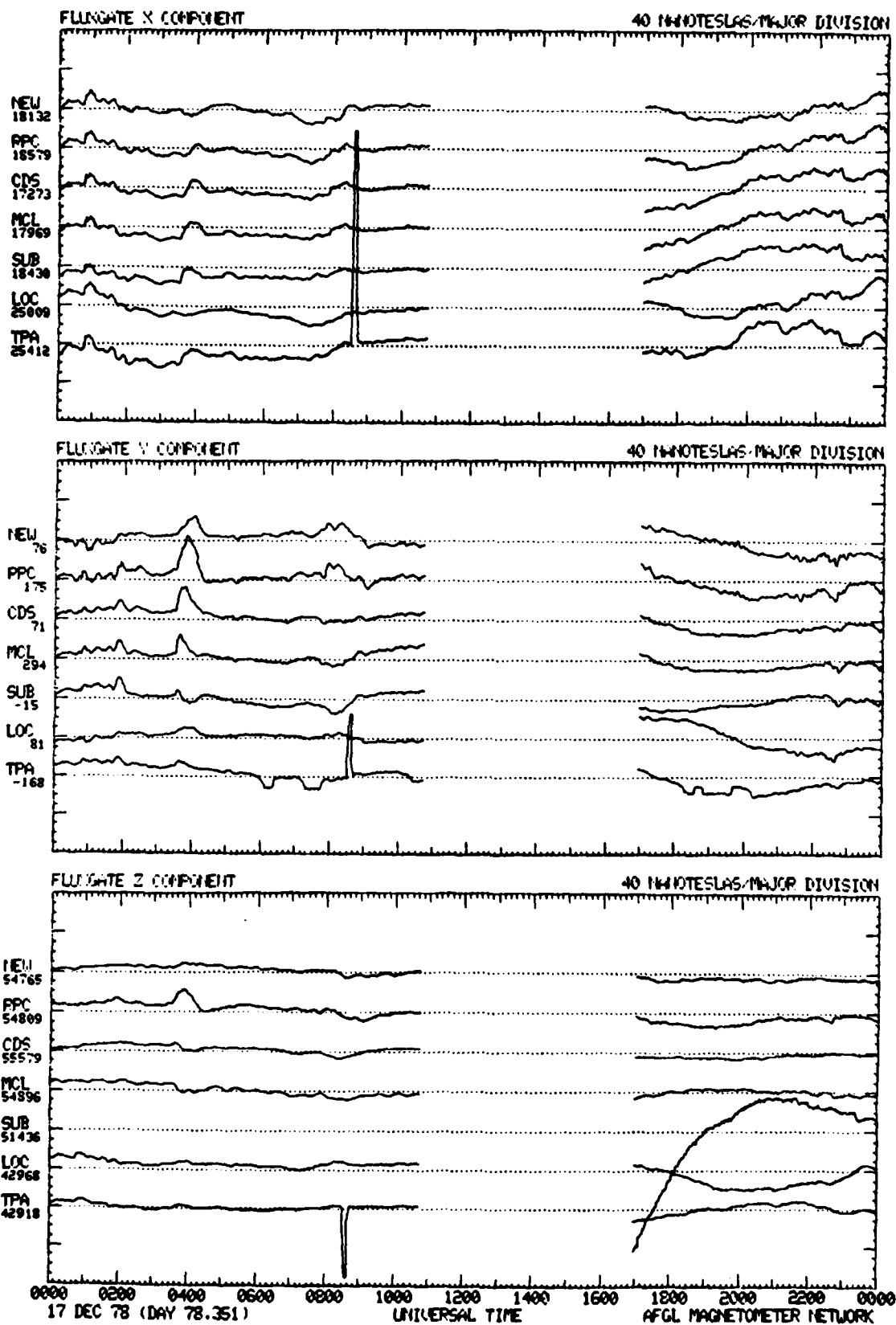
40 NANOTESLAS/MAJOR DIVISION

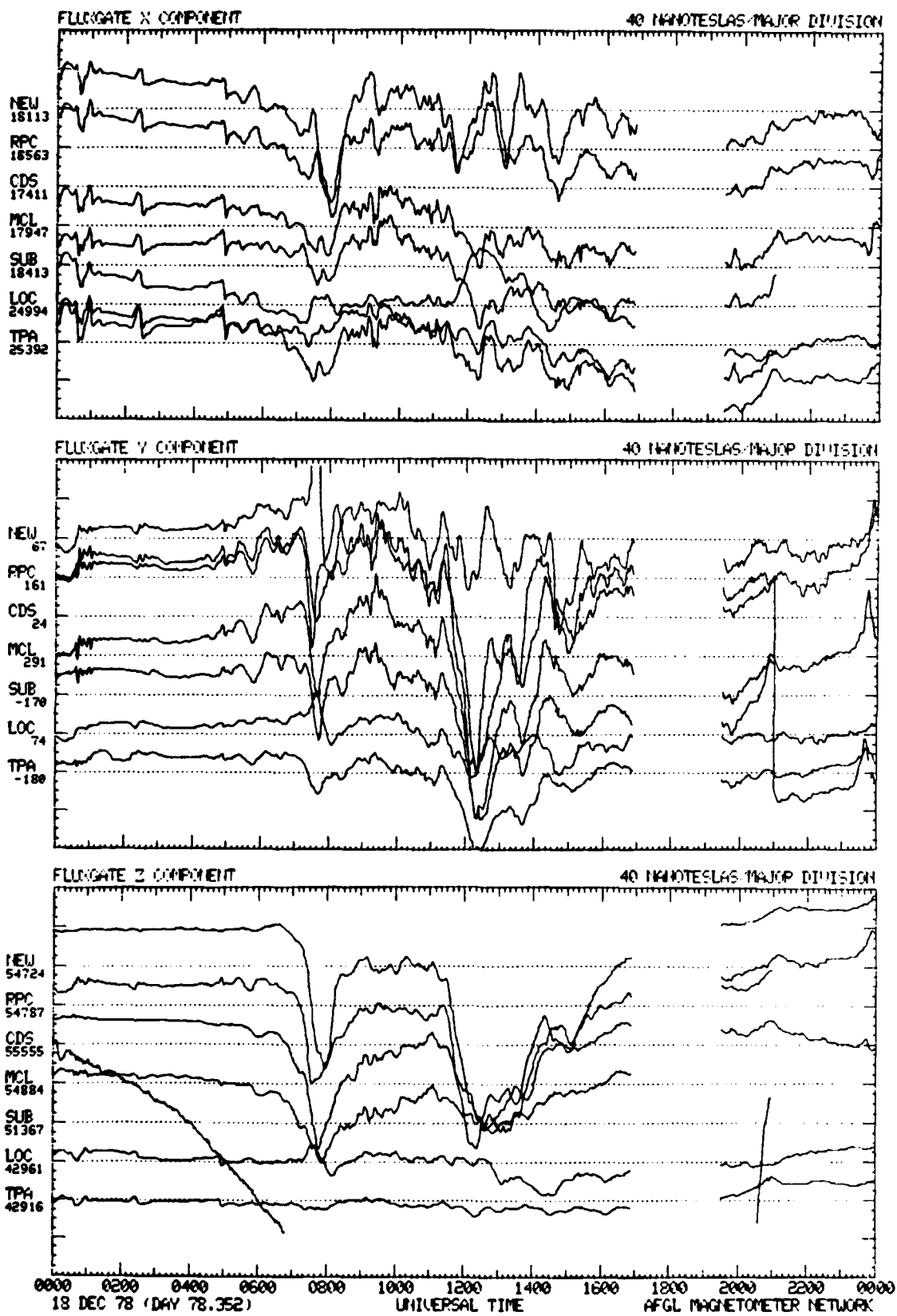
NEW
54766
RPC
54813
CDS
55575
MCL
54898
SUB
51584
LOC
42969
TPA
42916

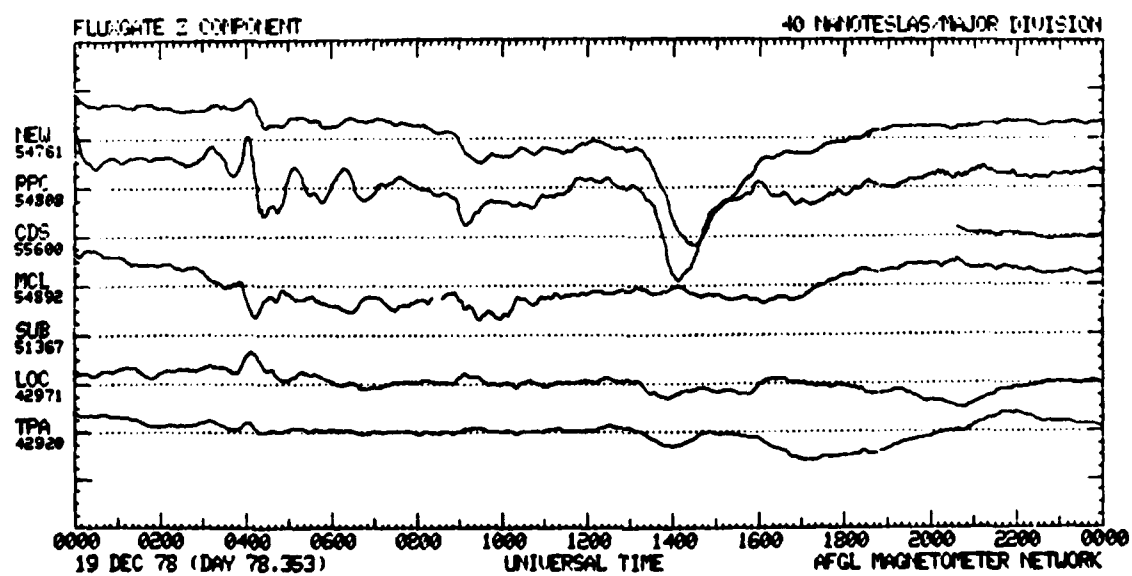
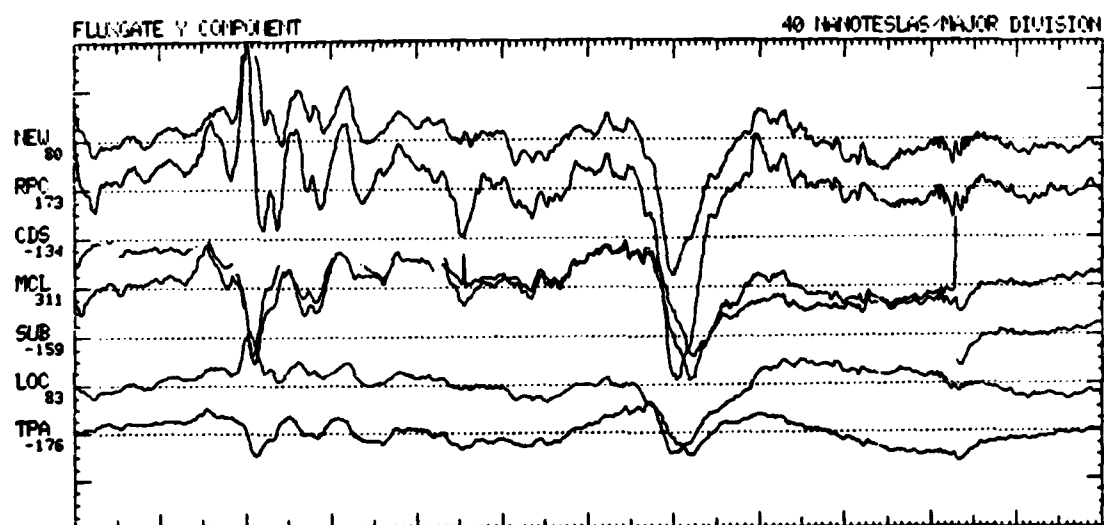
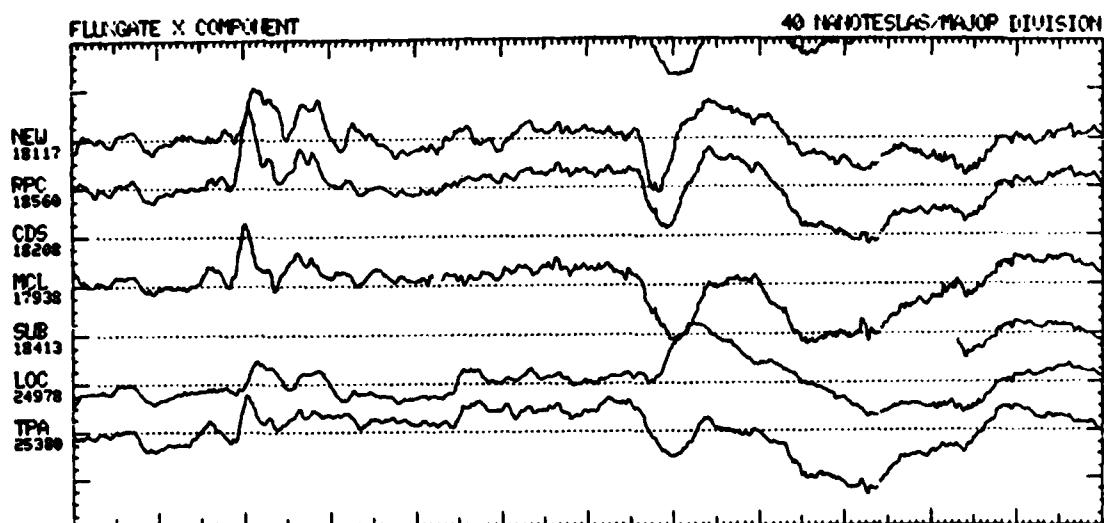


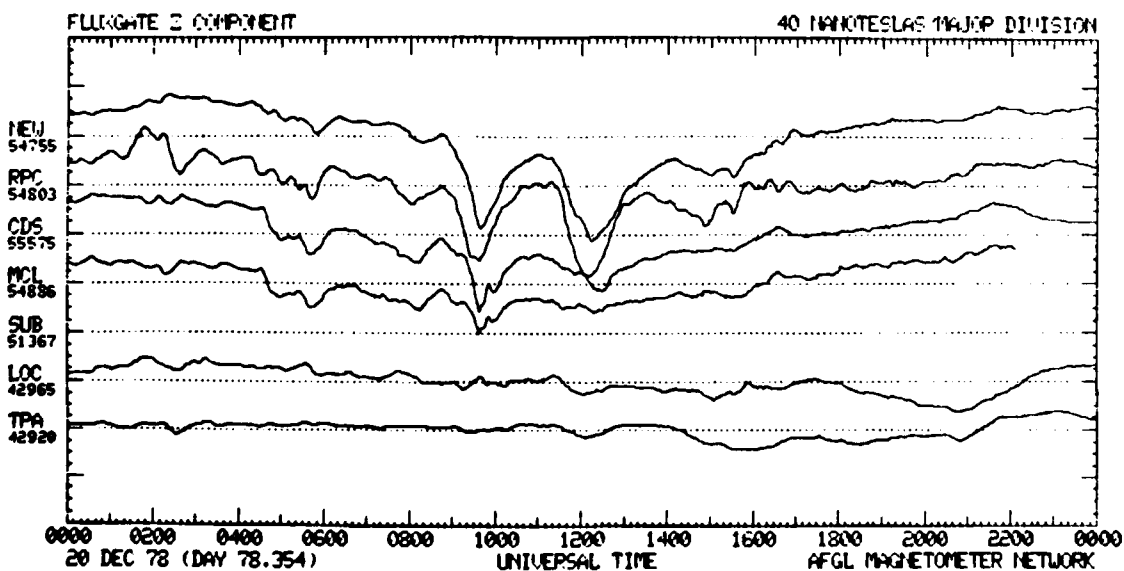
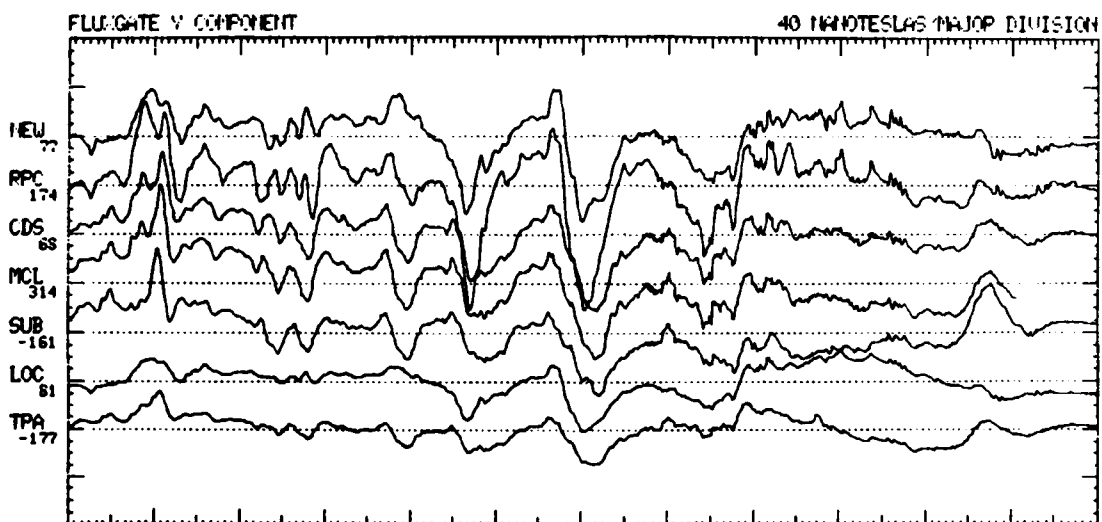
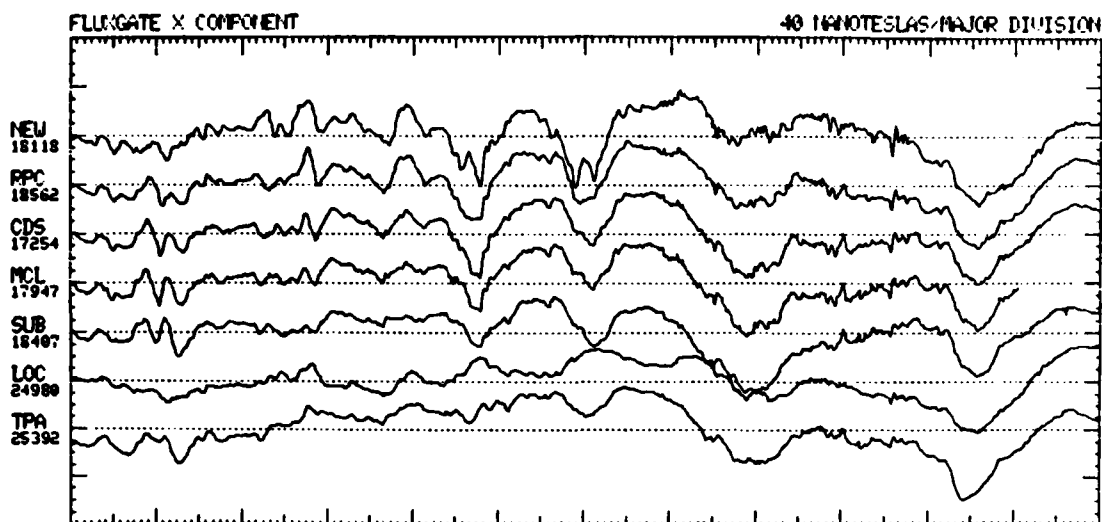
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
15 DEC 78 (DAY 78.349) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

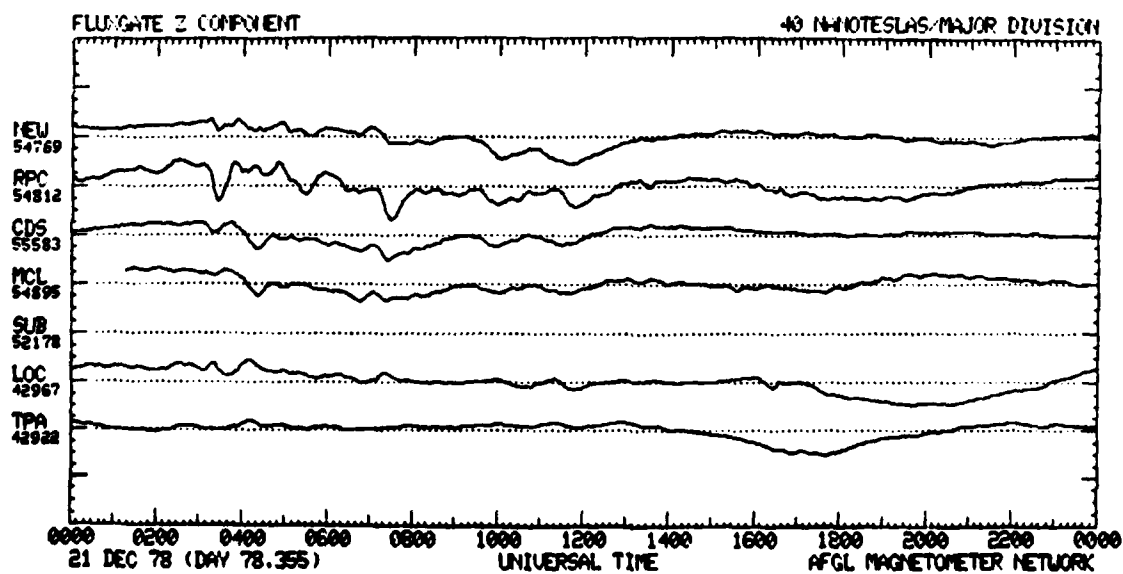
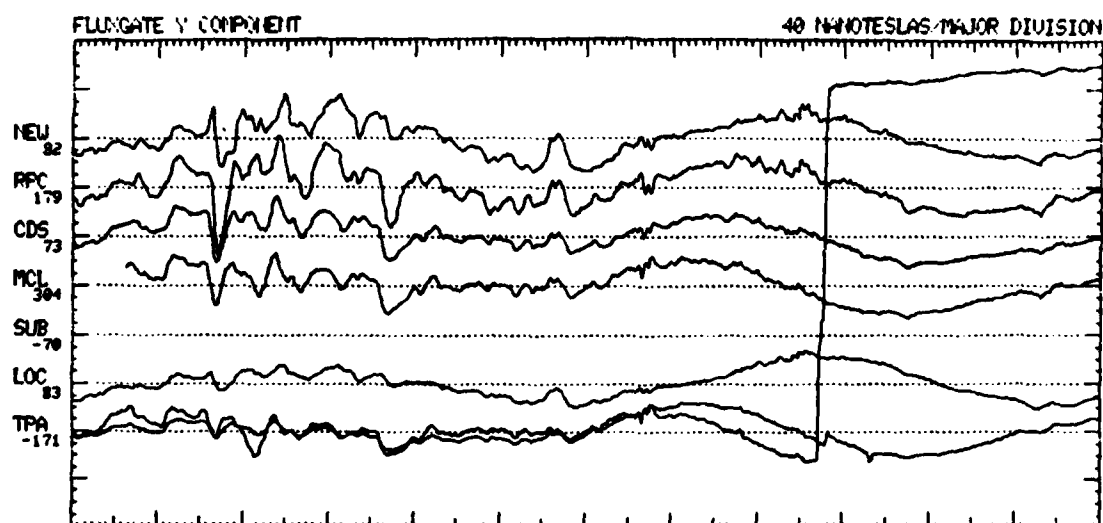
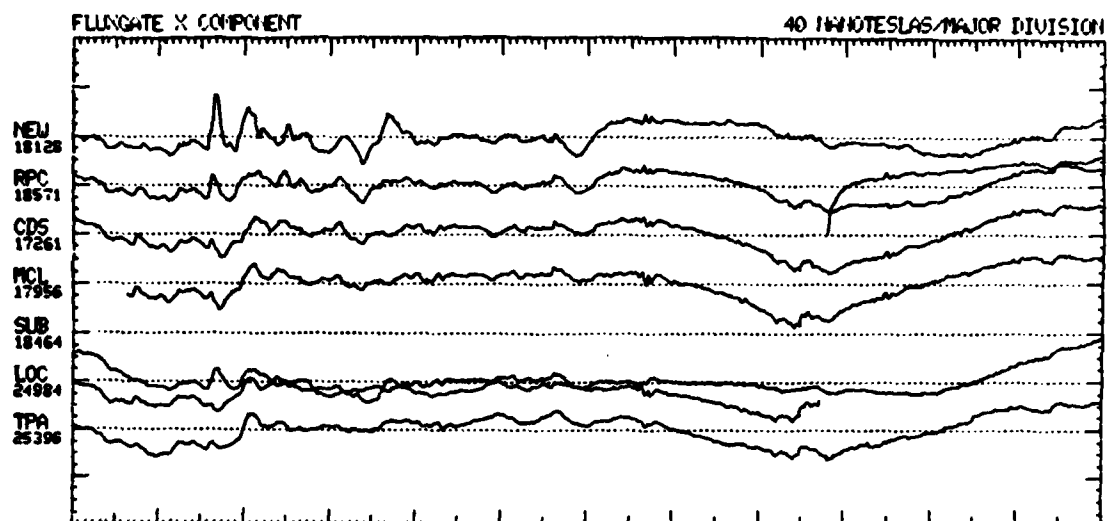


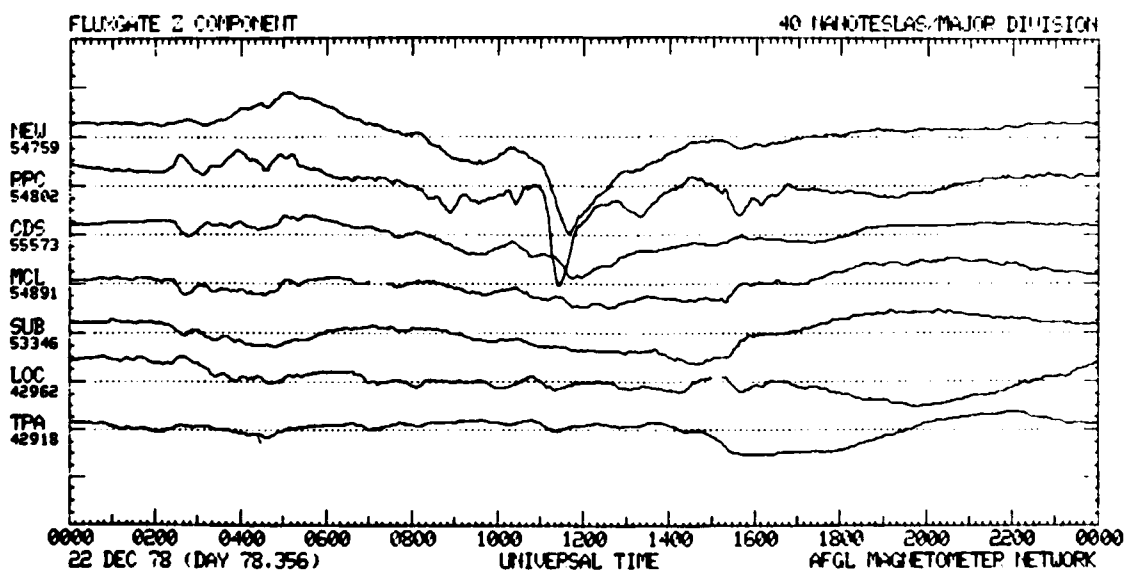
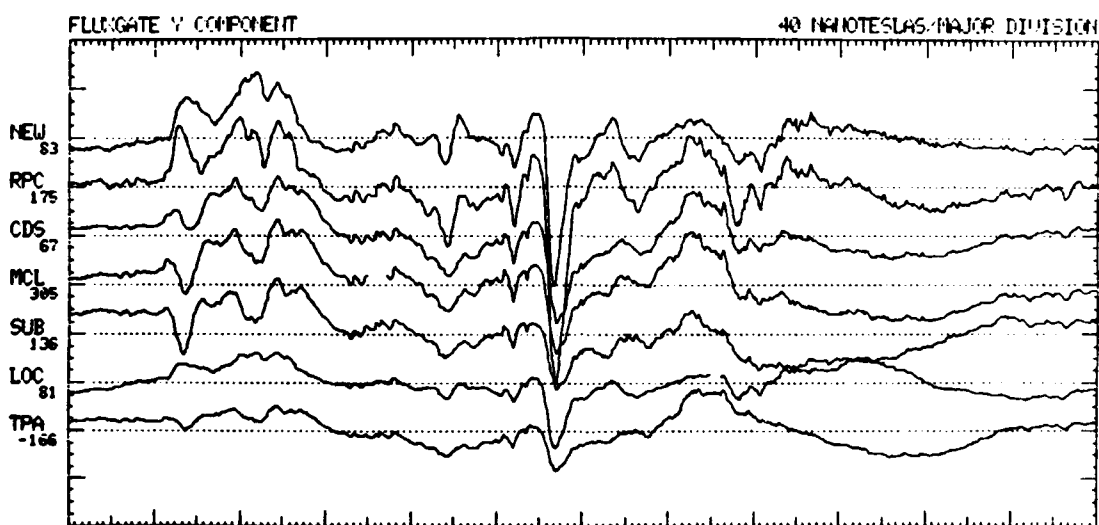
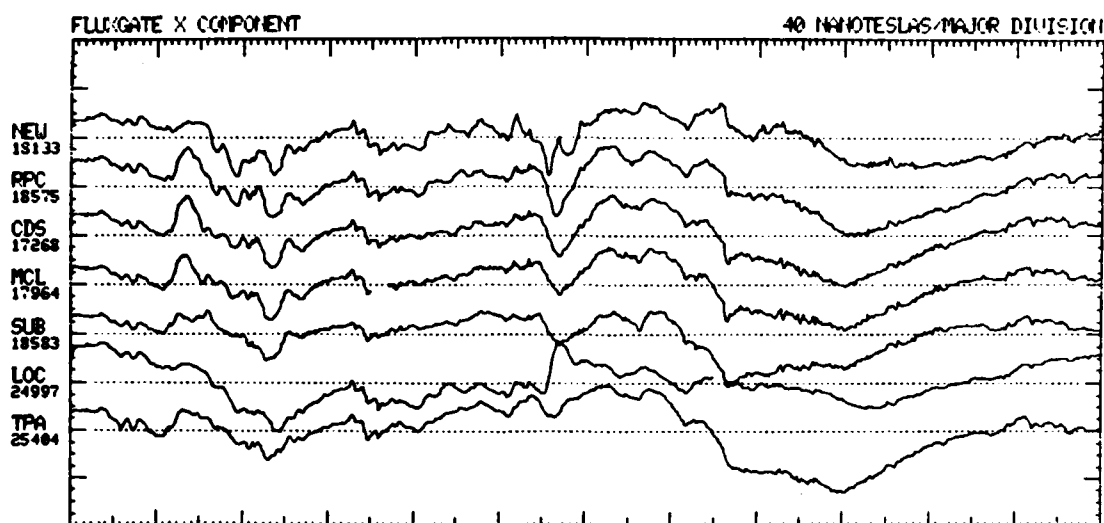


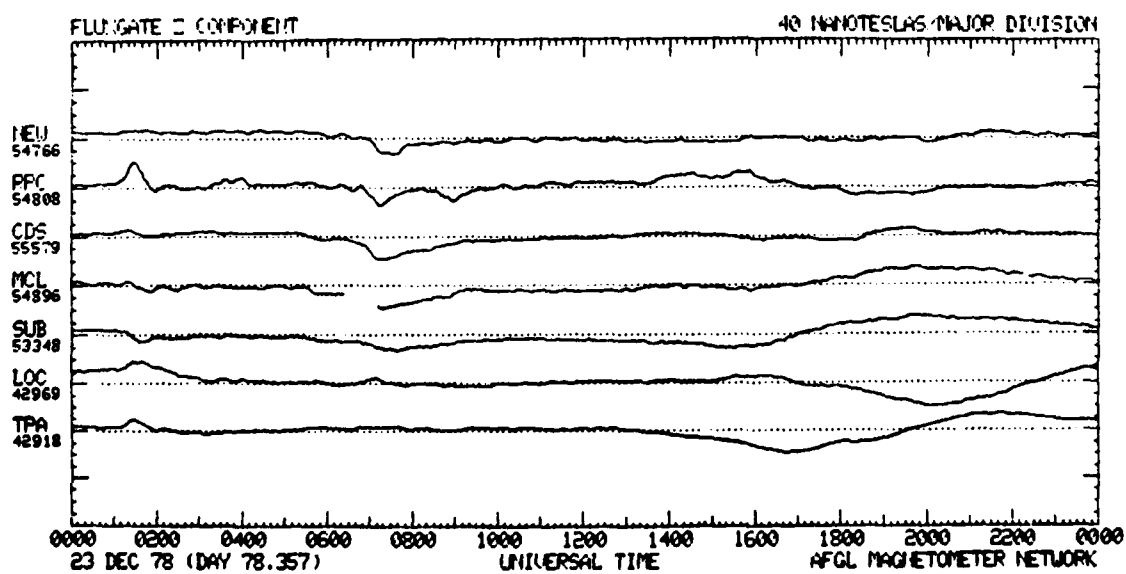
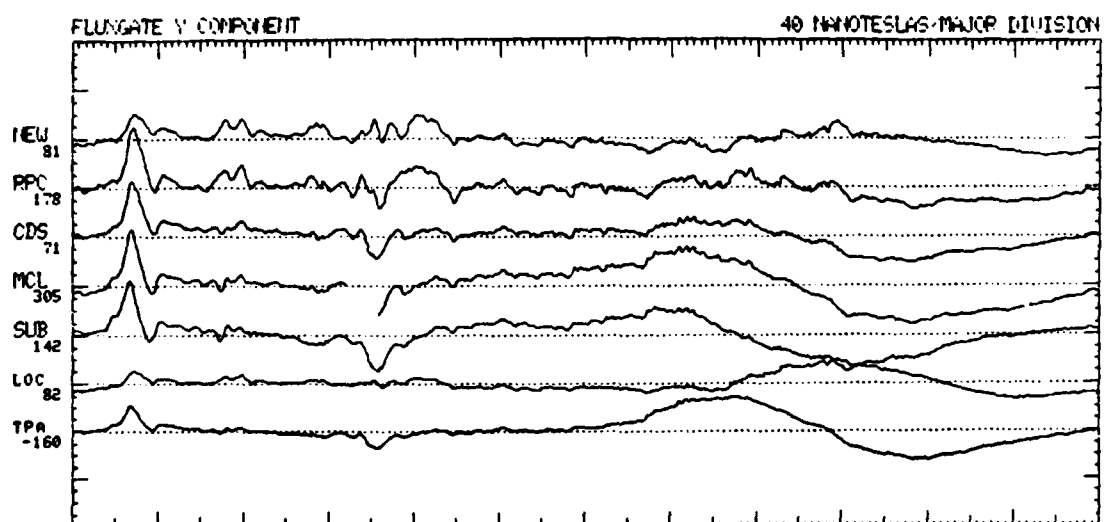
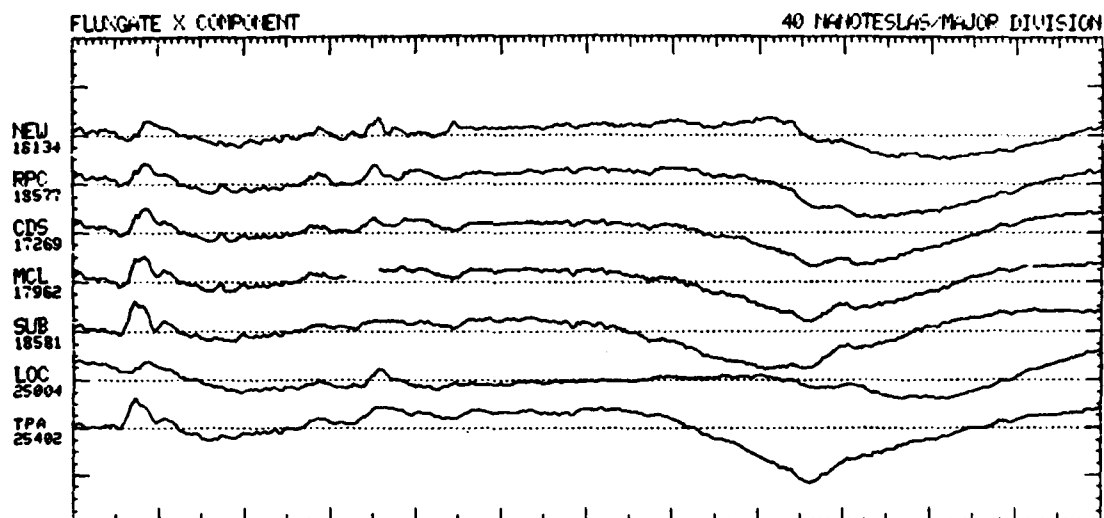


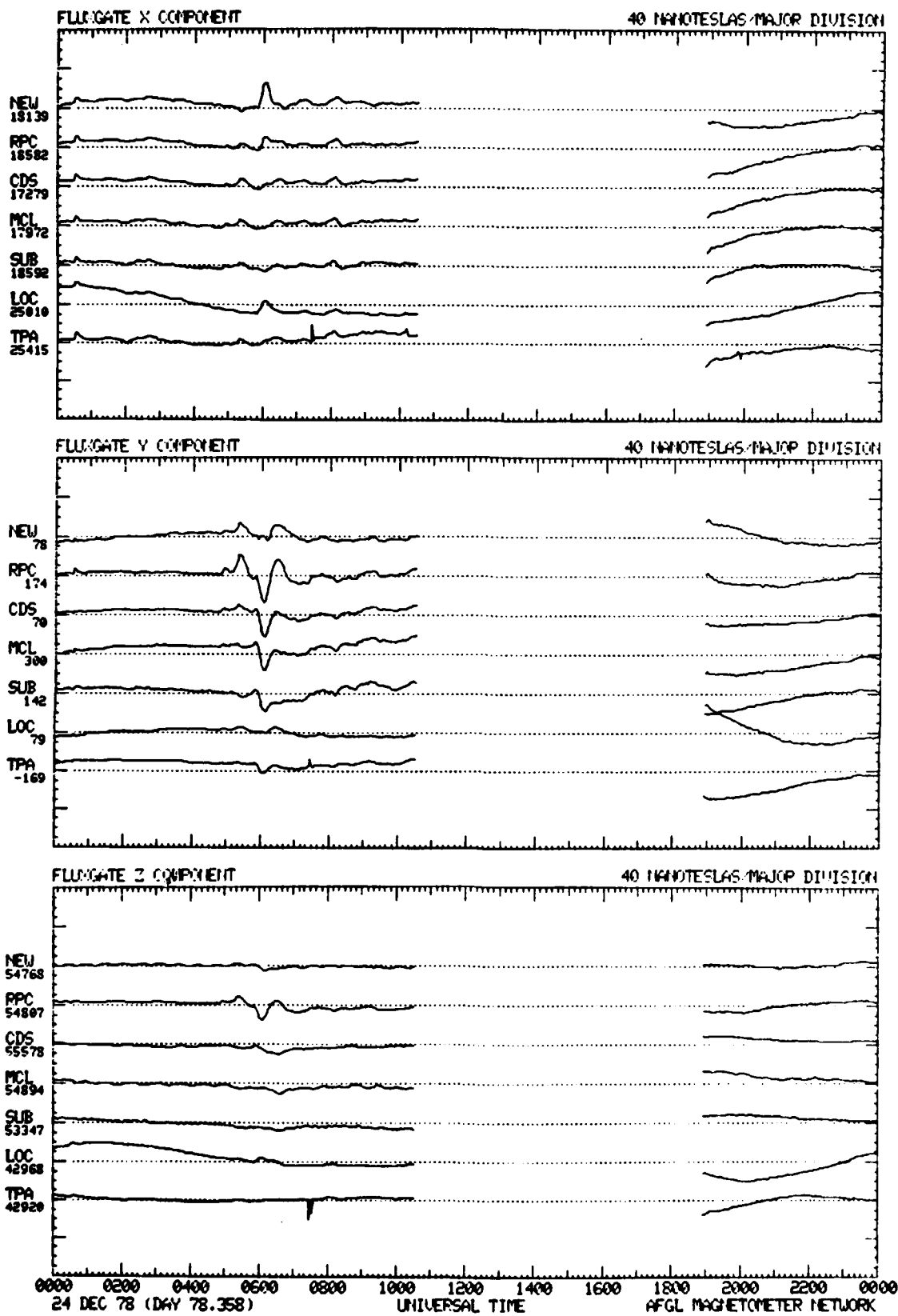


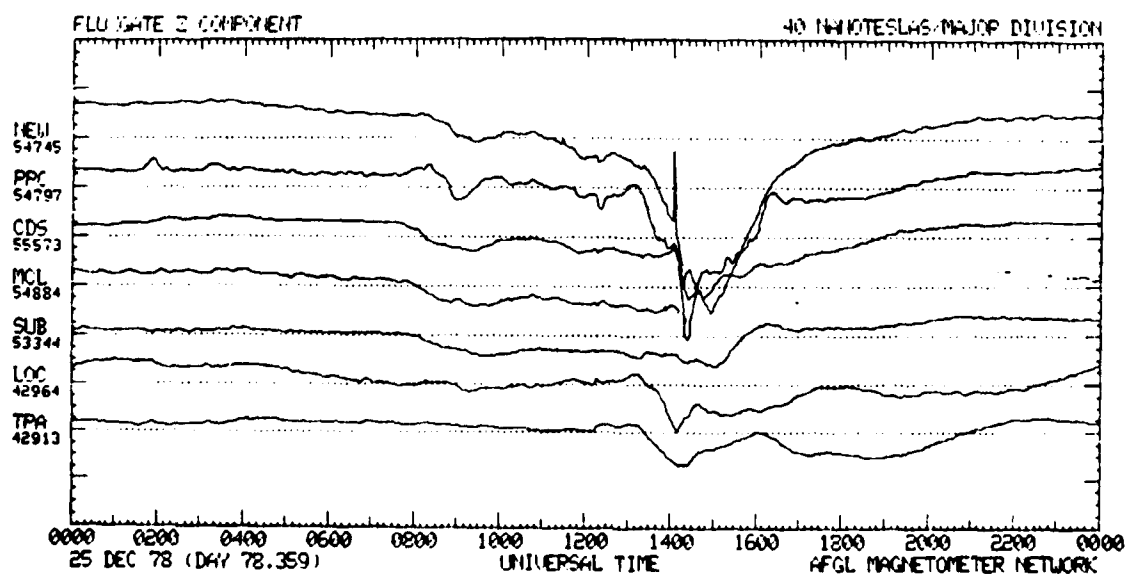
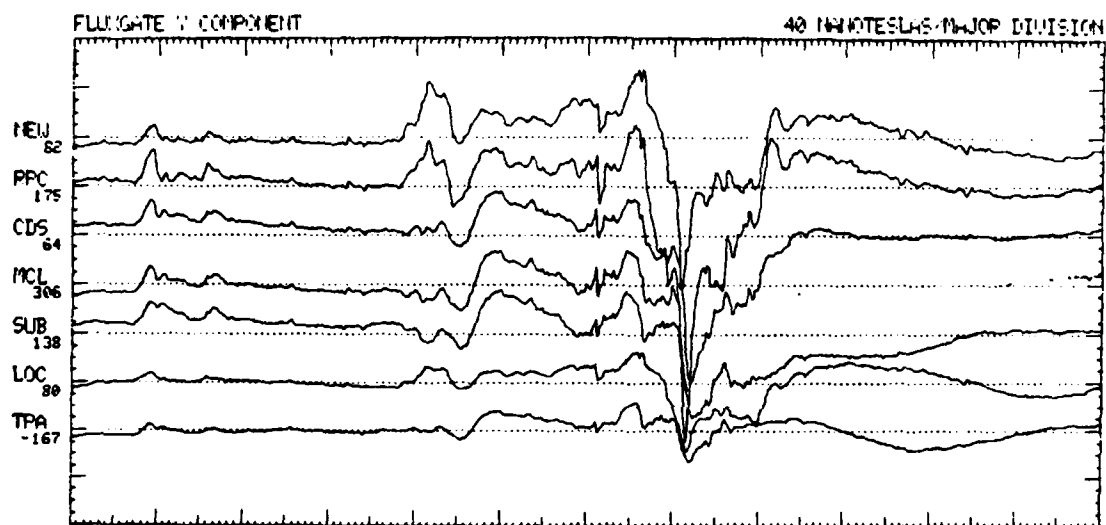
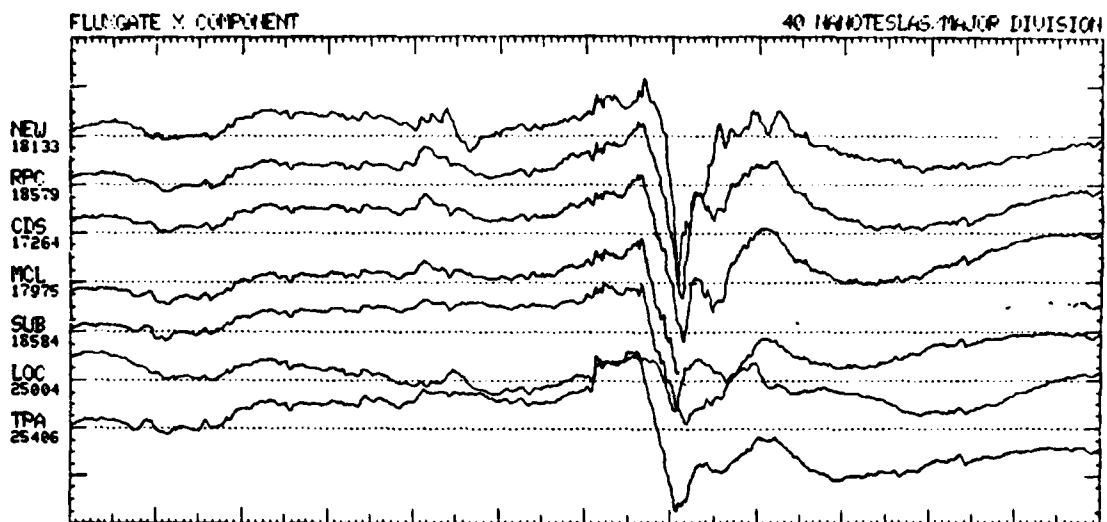


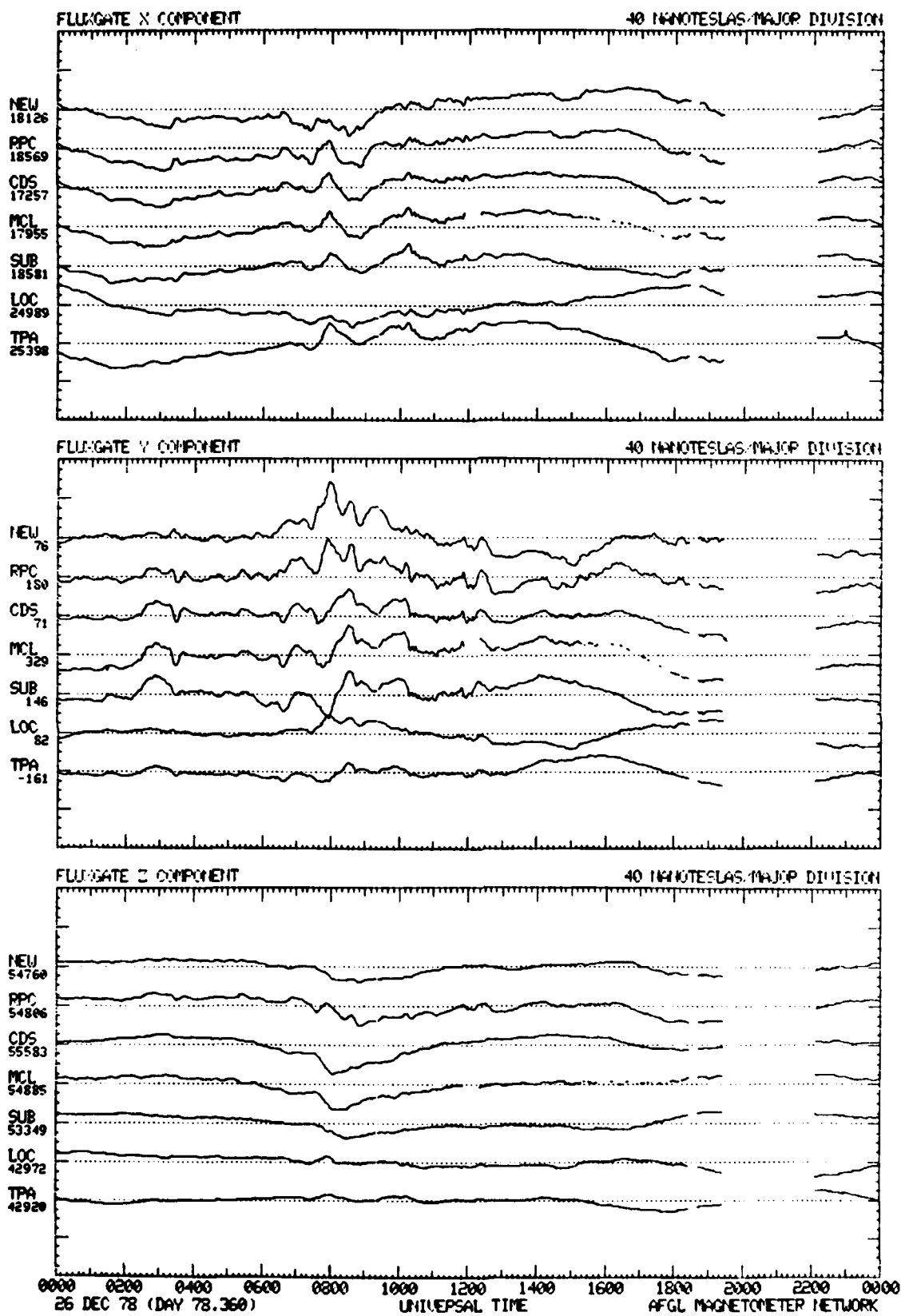


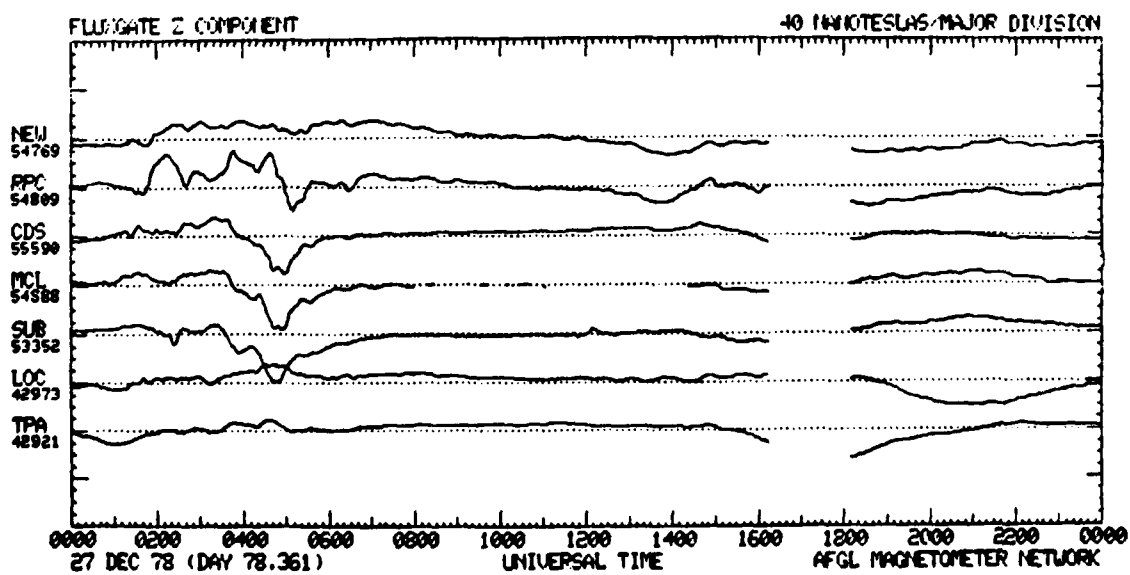
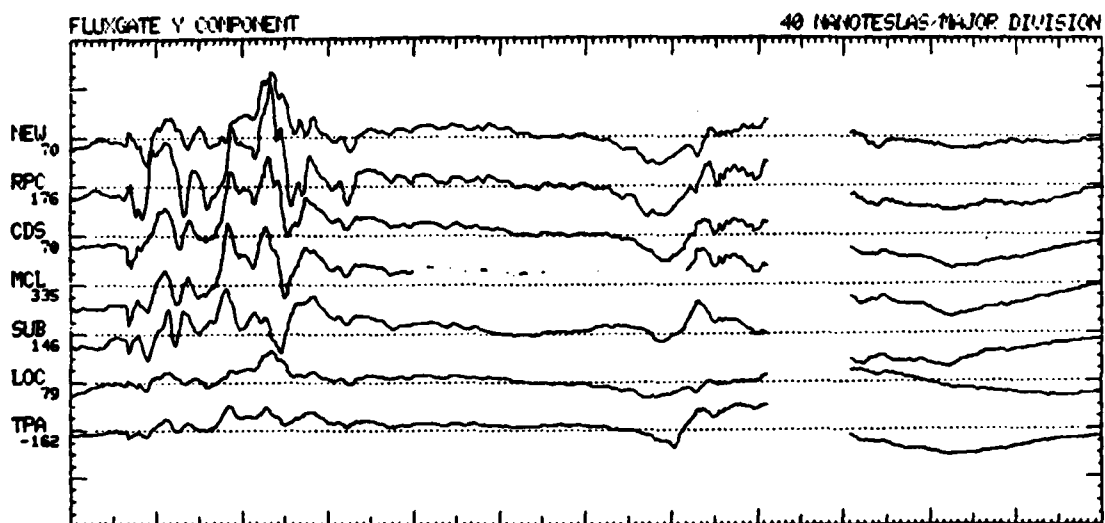
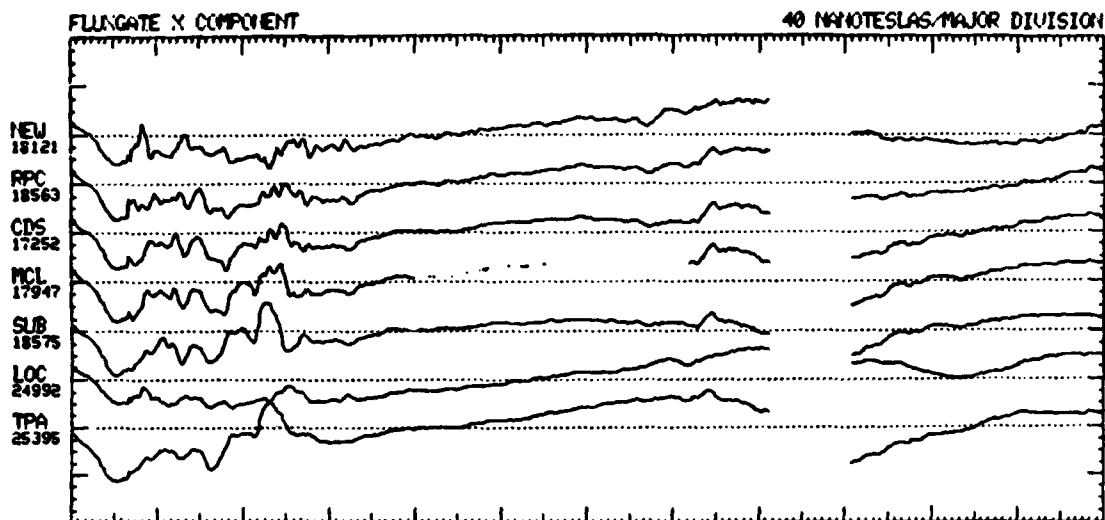


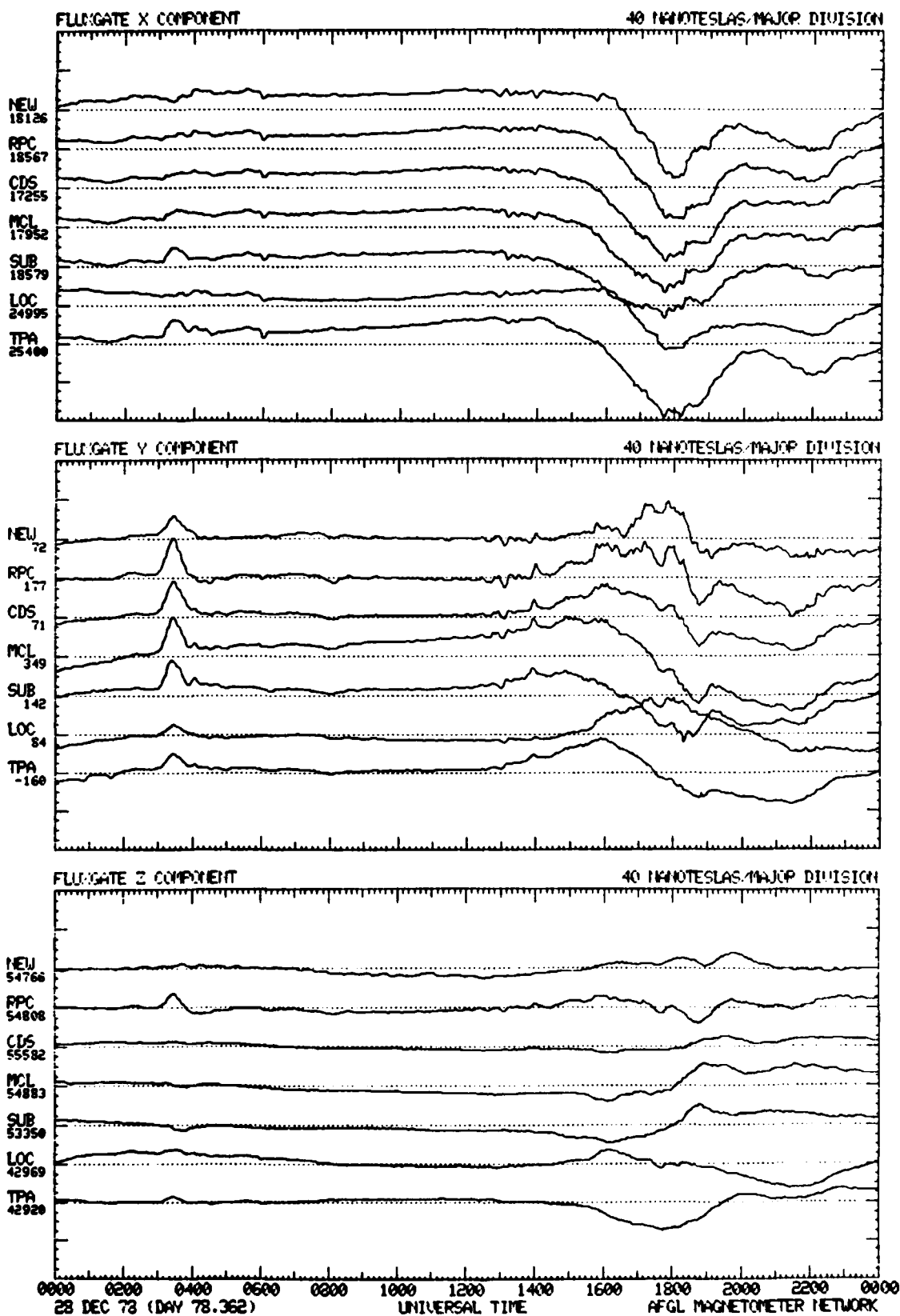


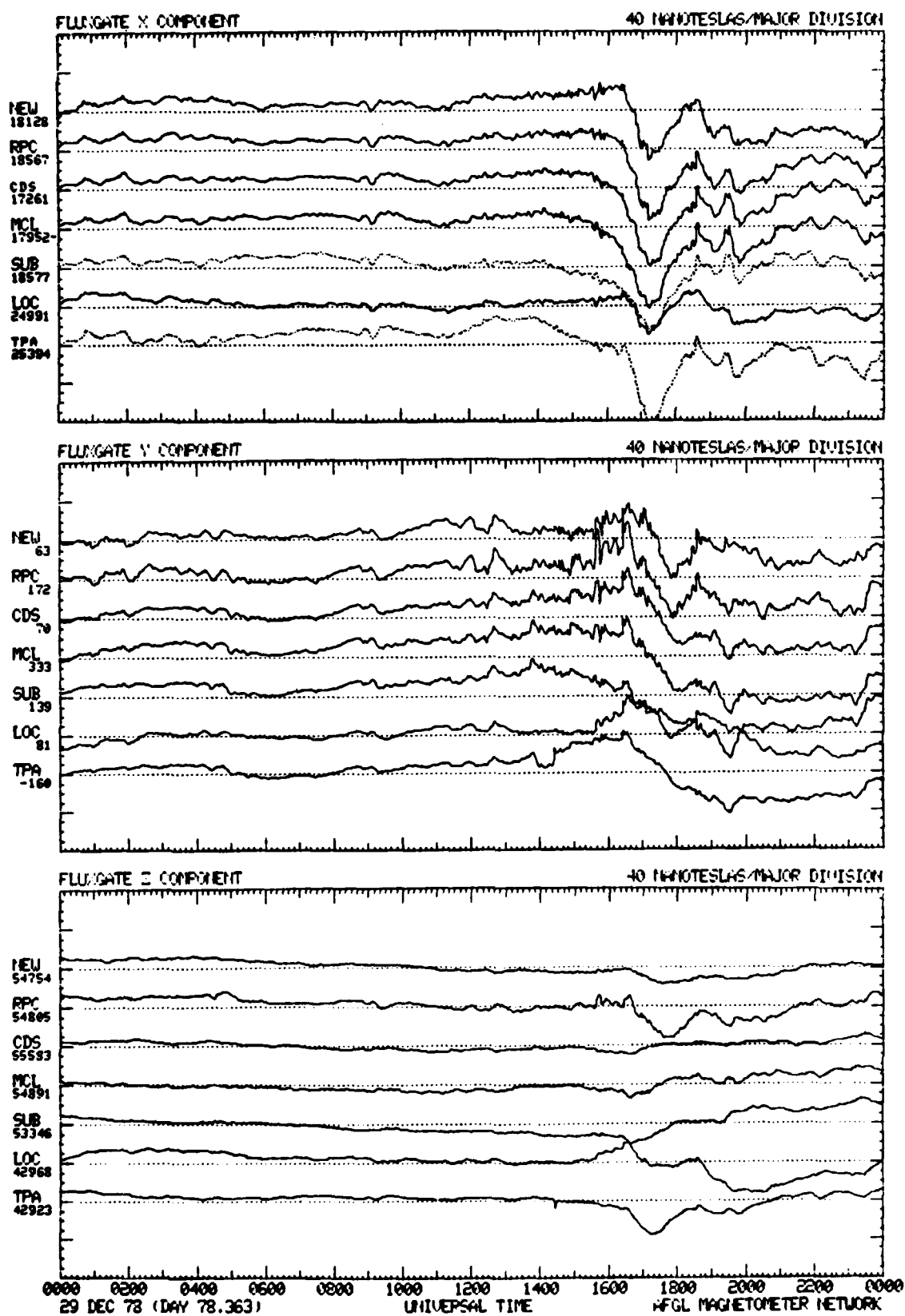


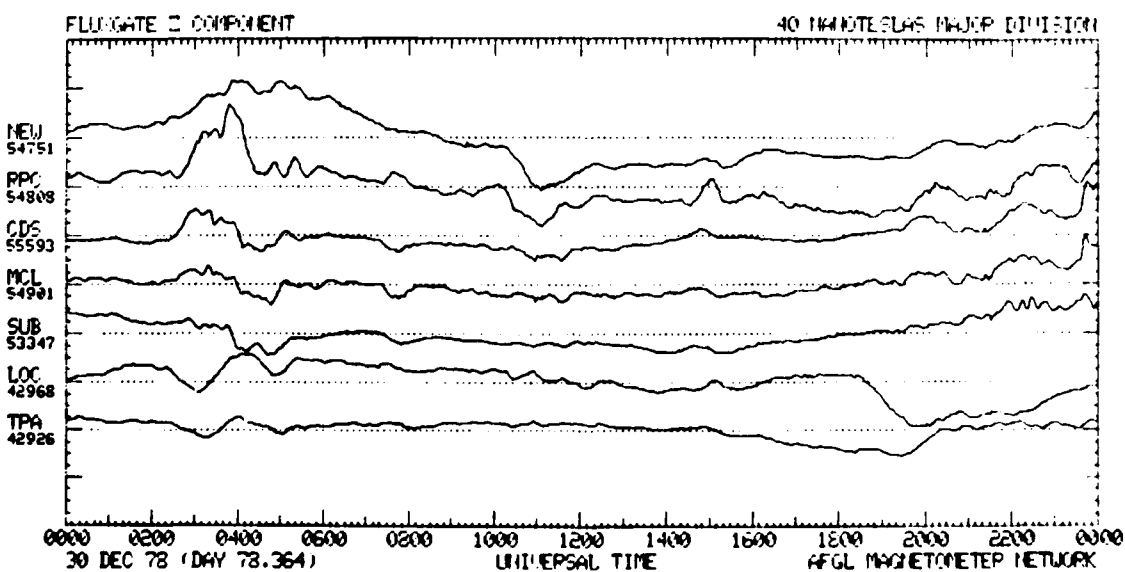
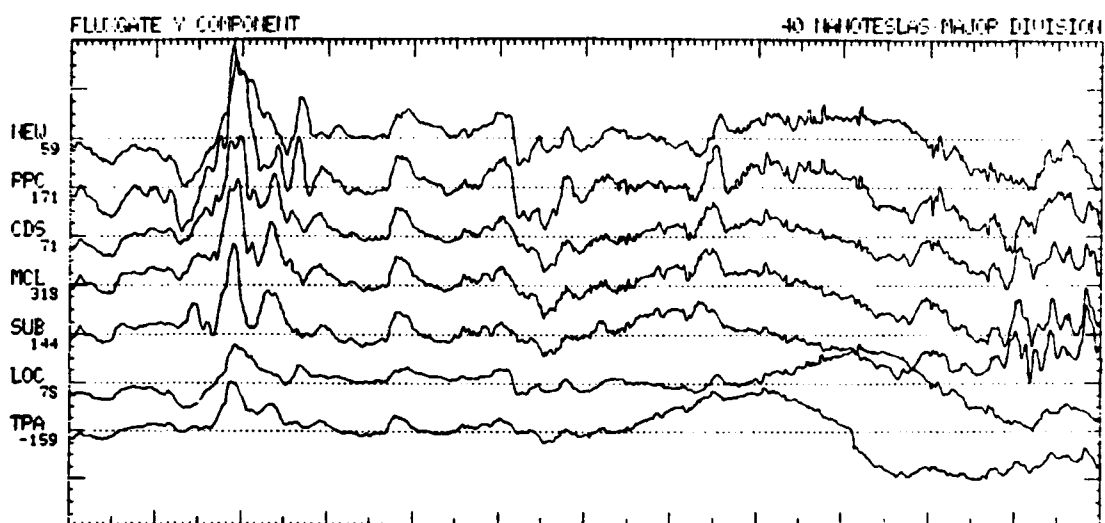
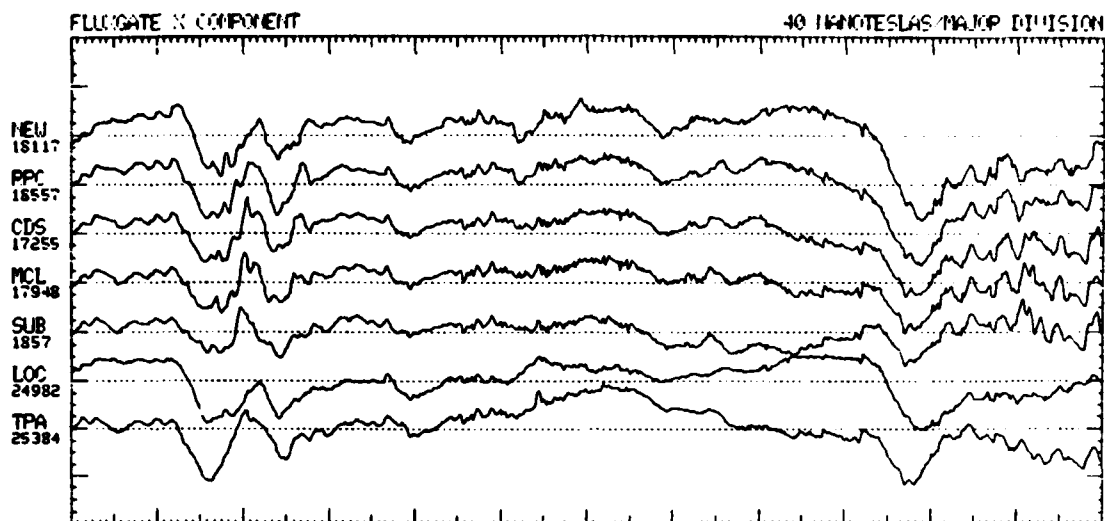








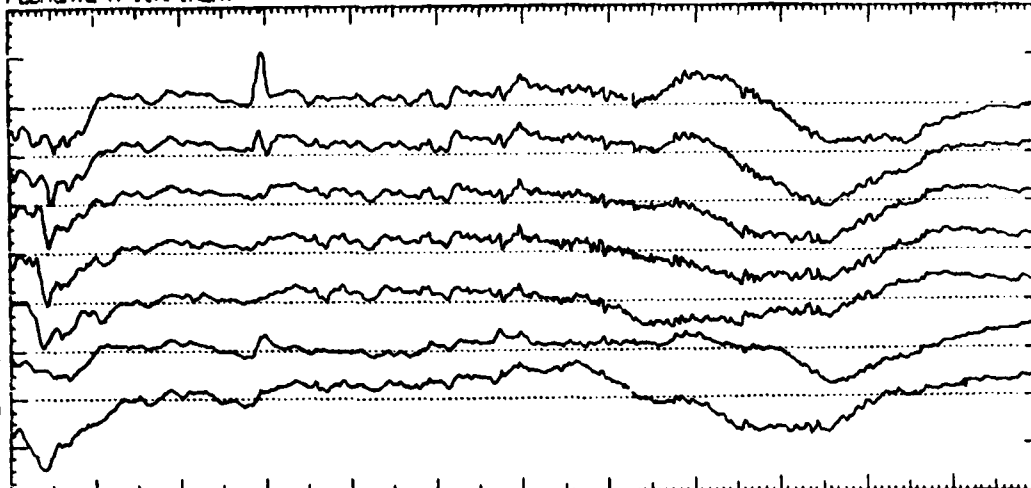




FLIGHT X COMPONENT

40 INNOTESLAS-MAJOR DIVISION

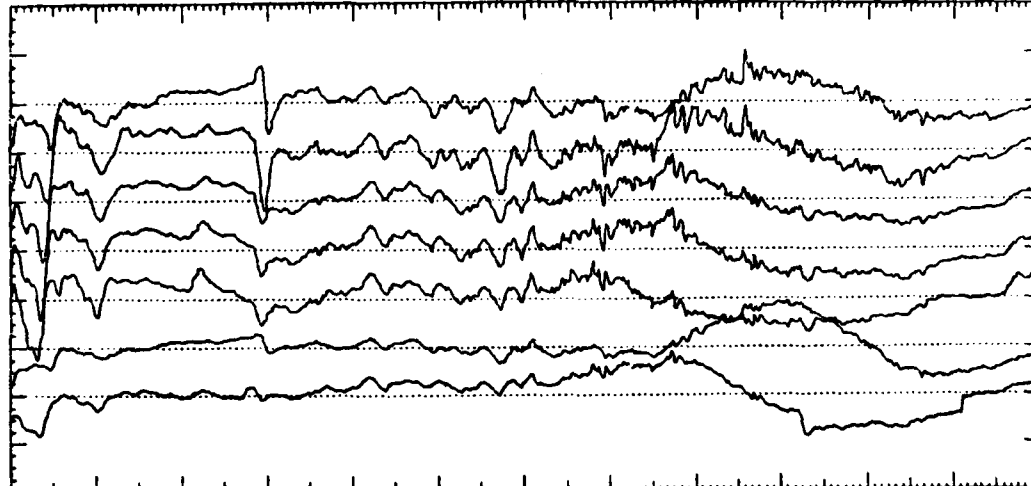
NEW
18121
RPC
18557
CDS
17245
MCL
17948
SUB
18572
LOC
24982
TPA
25383



FLIGHT Y COMPONENT

40 INNOTESLAS-MAJOR DIVISION

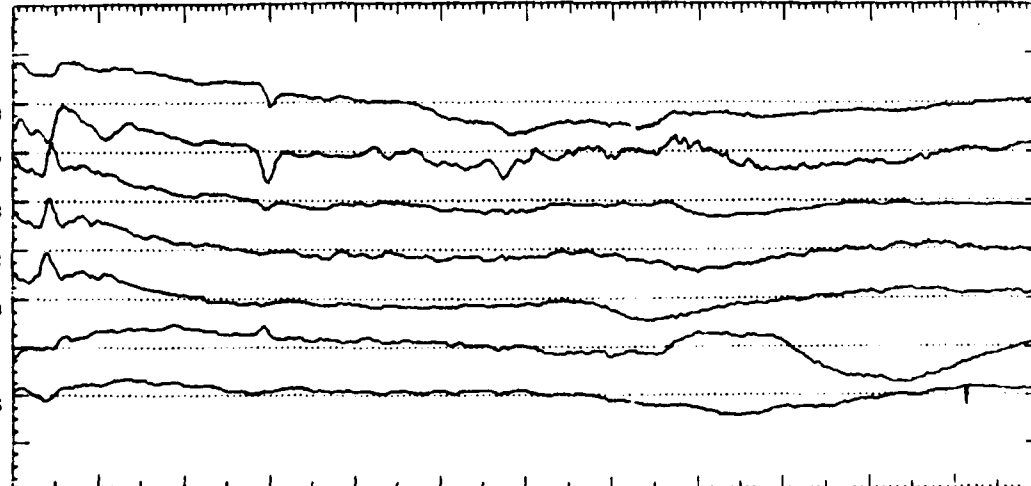
NEW
59
RPC
169
CDS
67
MCL
362
SUB
140
LOC
81
TPA
-166



FLIGHT Z COMPONENT

40 INNOTESLAS-MAJOR DIVISION

NEW
54743
RPC
54887
CDS
55598
MCL
54902
SUB
53353
LOC
42971
TPA
42926

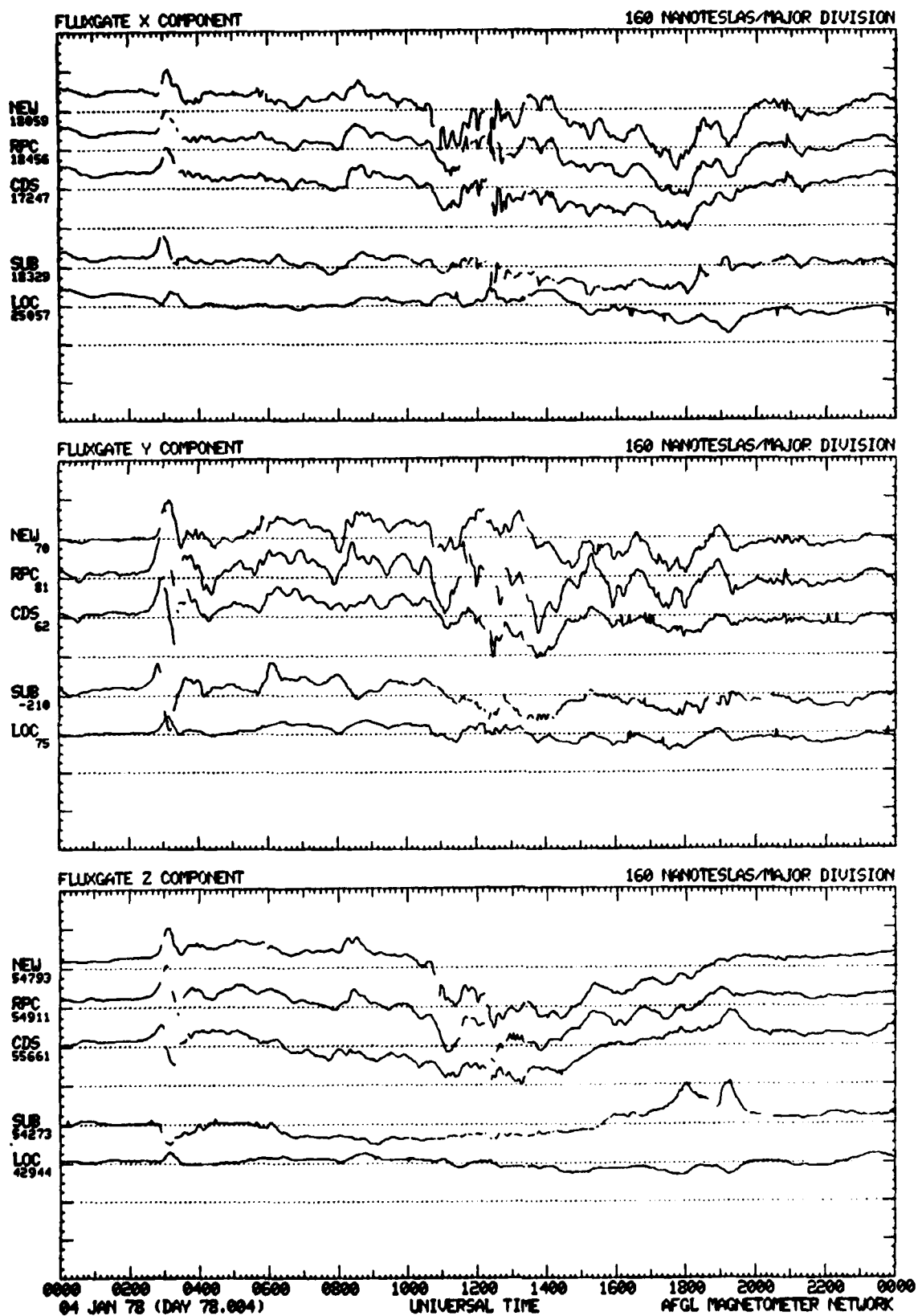


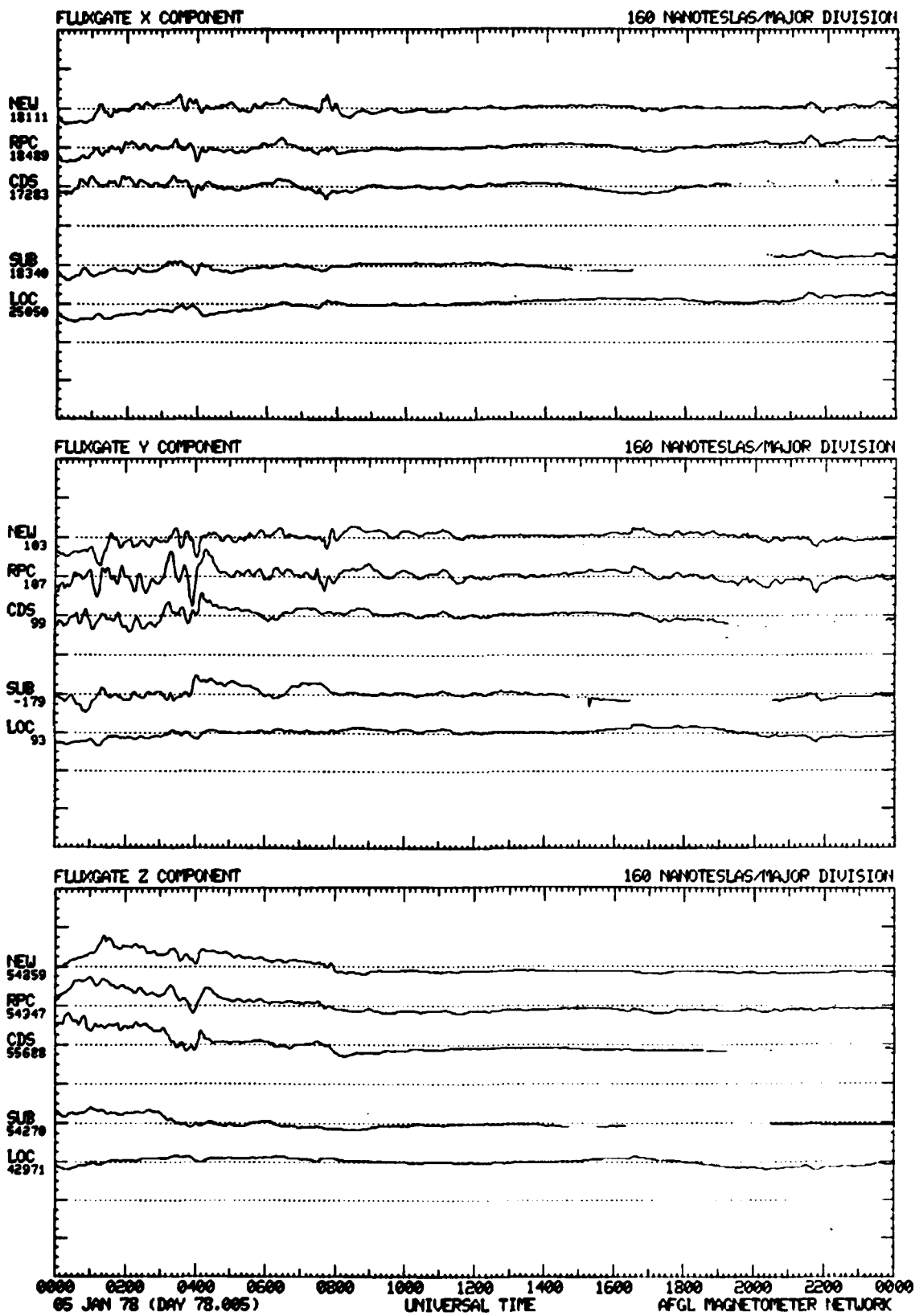
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
31 DEC 78 (DAY 78.365) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

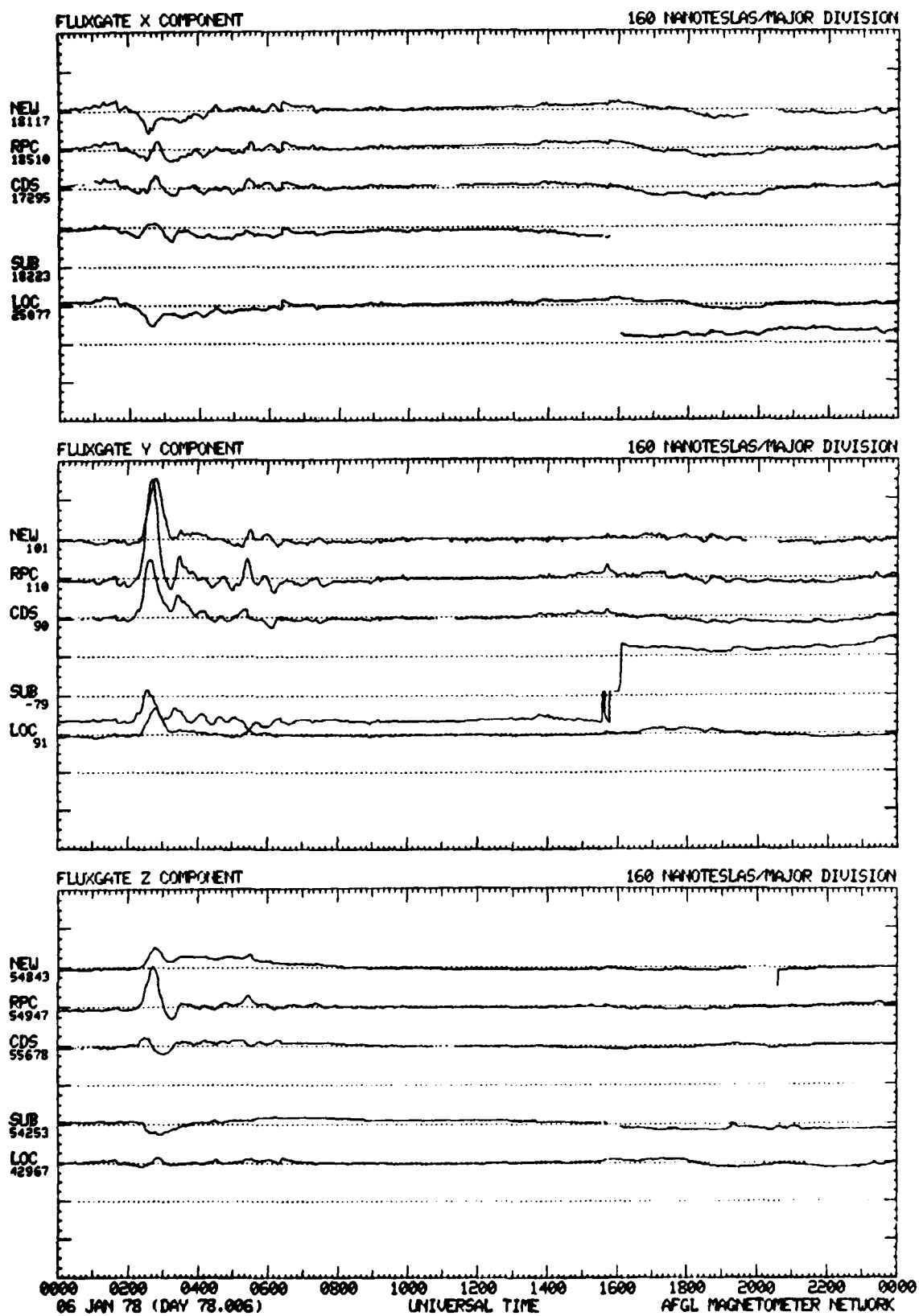
8. SUPPLEMENTARY PLOTS AT REDUCED AMPLITUDE

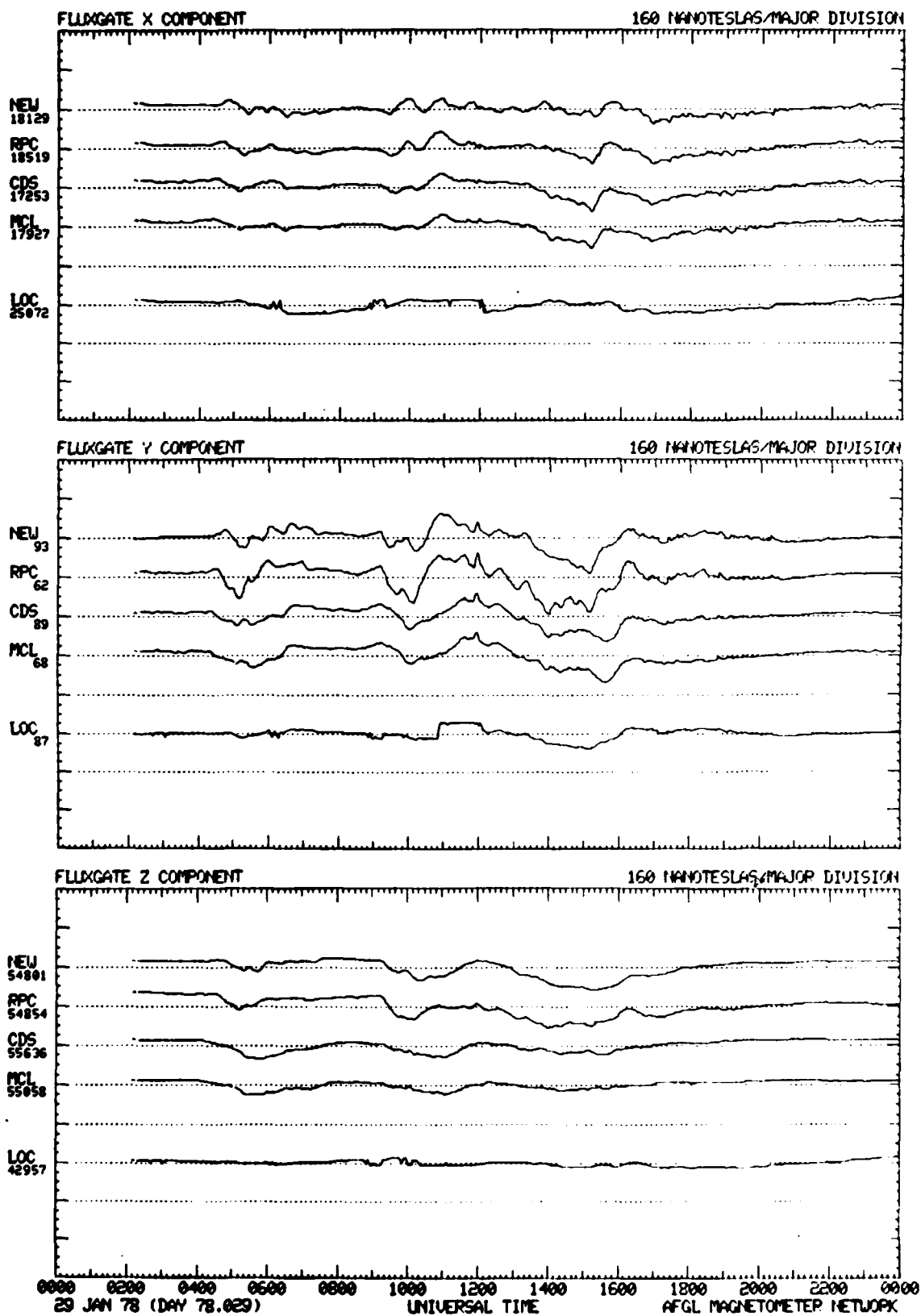
This section presents a stacked-magnetogram plot for each of the following days of 1978, using an amplitude scale of 160 or 400 nT per major division:

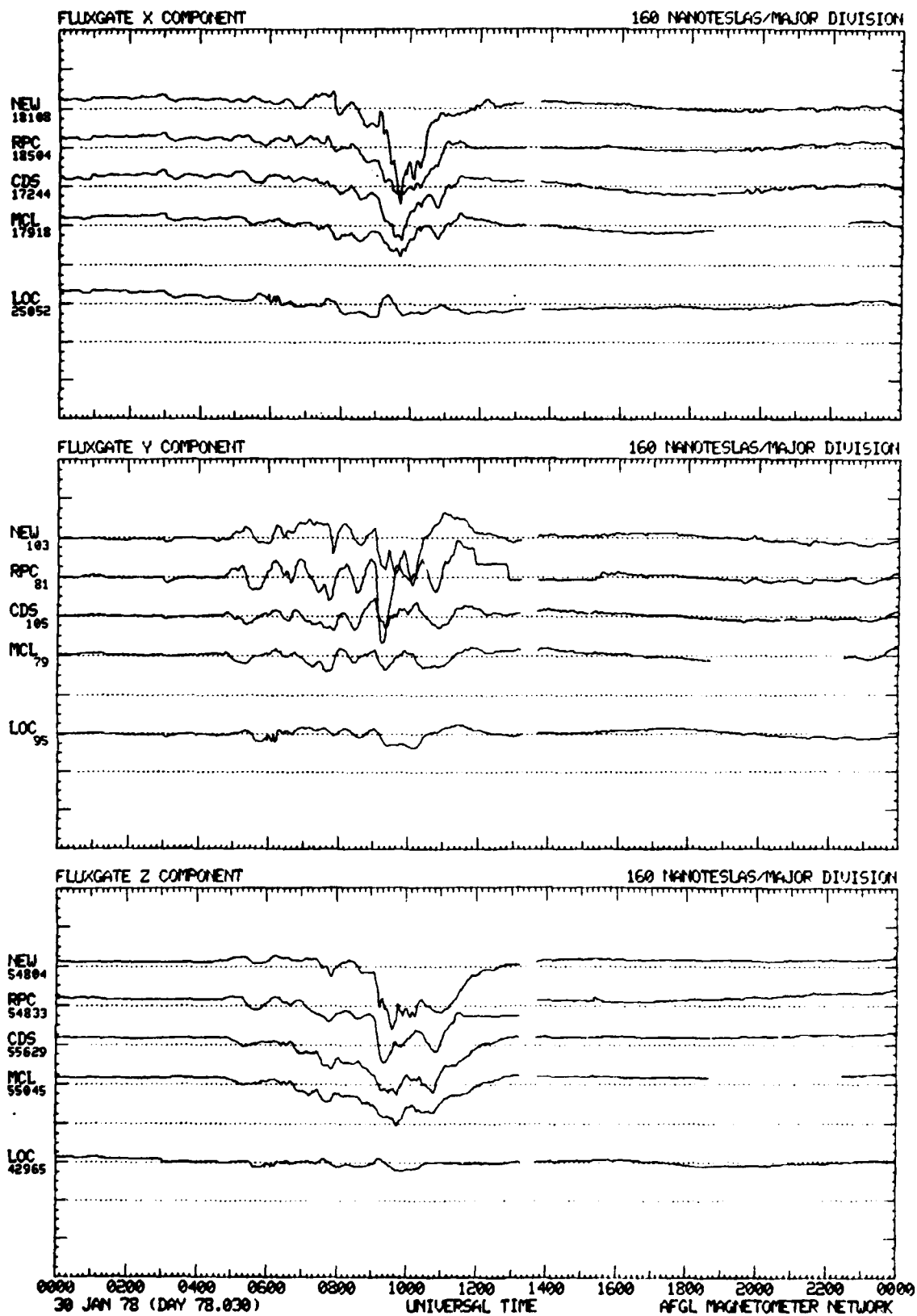
January	04, 05, 06, 29, 30
February	none
March	27
April	04, 05, 10, 11, 12, 14, 20, 24, 30
May	01, 02, 03, 04, 09, 30, 31
June	02, 03, 04, 05, 29
July	03, 04, 05, 13, 14
August	28, 29
September	08, 27, 28, 29
October	none
November	12, 25, 26
December	15











AD-A168 759	DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS LAB HANSON AFB MA D J KNECHT 88 JAN 85	5/5
UNCLASSIFIED	AFGL-TR-85-0027	F/G 8/14 NL

DAILY MAGNETOGRAMS FOR 1978 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 08 JAN 85 F/G 8/14
AFGL-TR-85-0027

5/5

UNCLASSIFIED

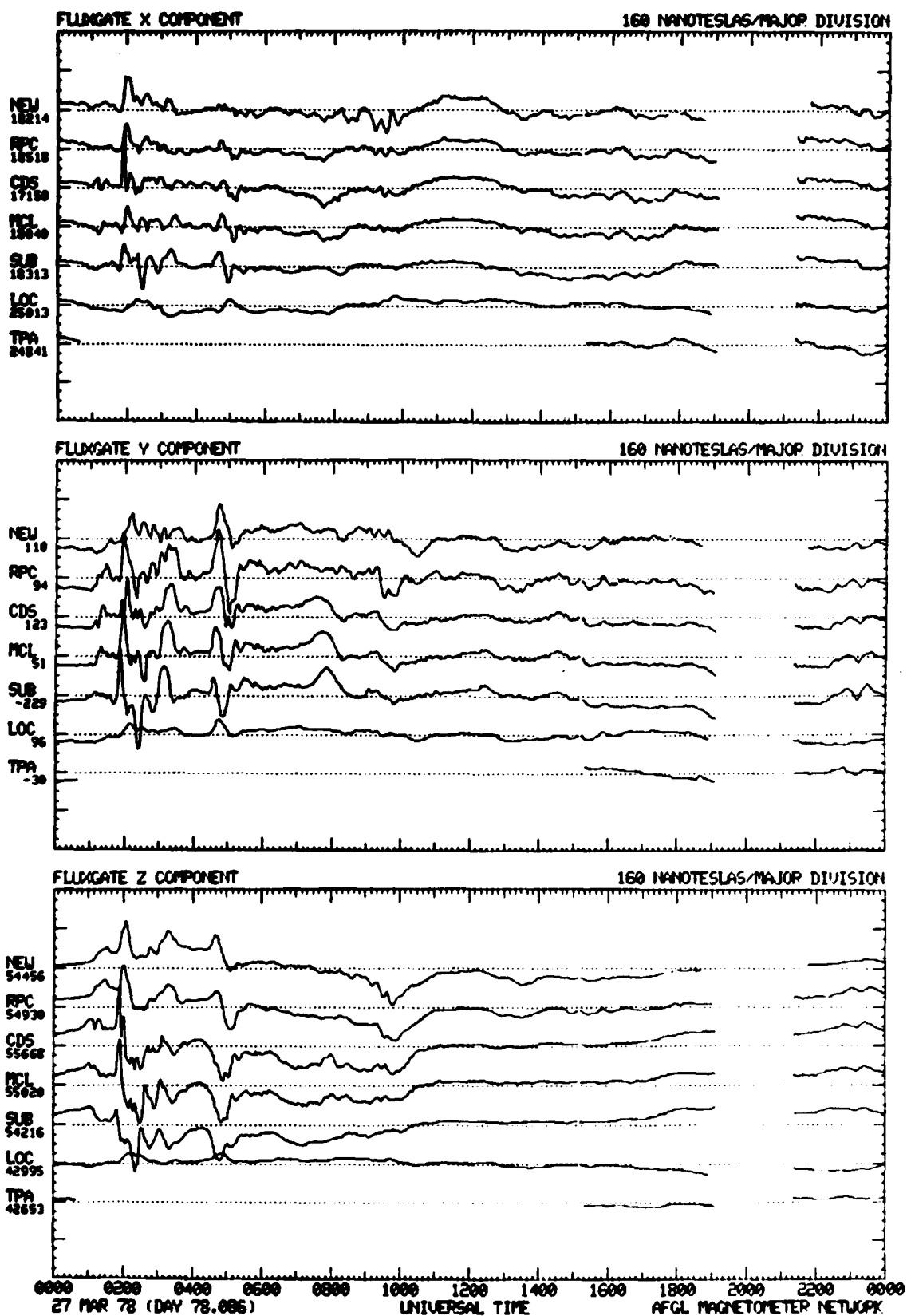
F/G 8/14

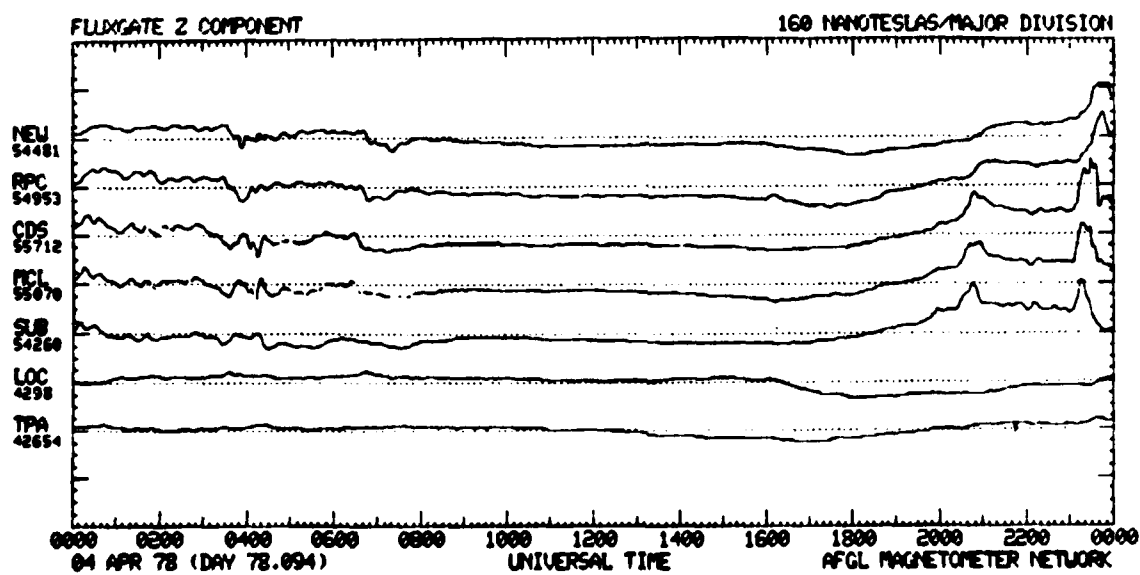
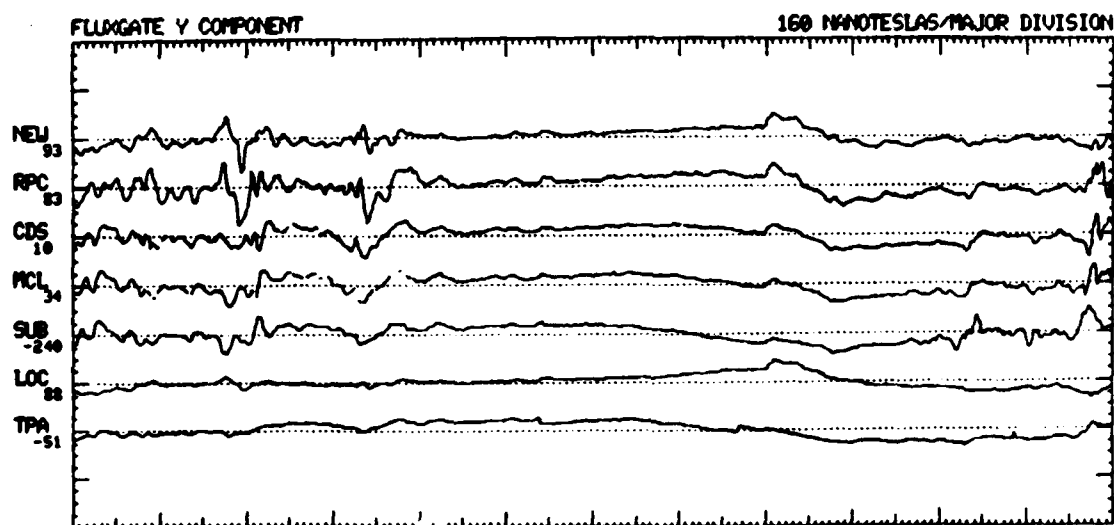
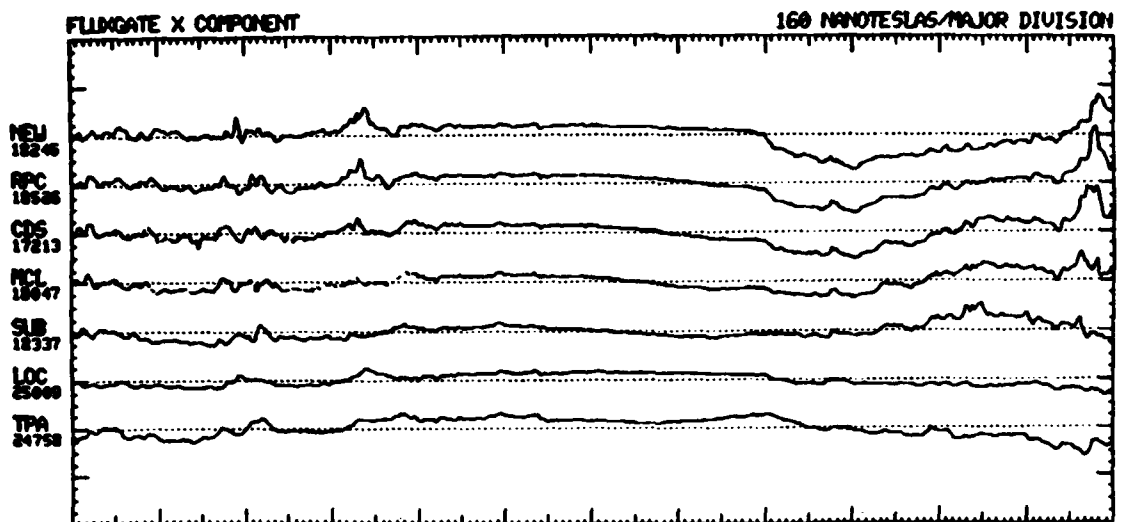
NL

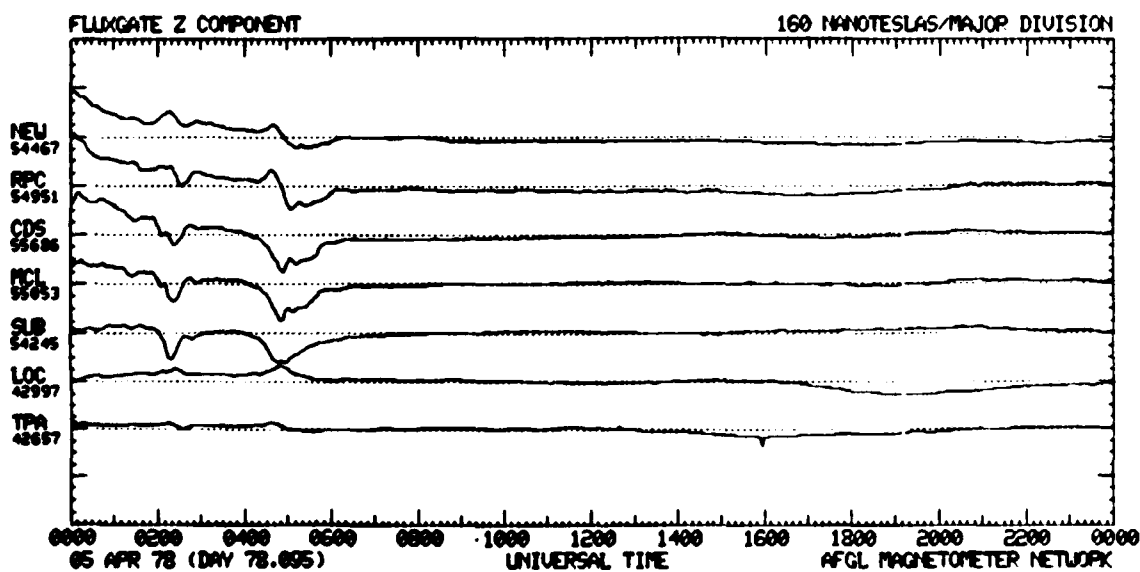
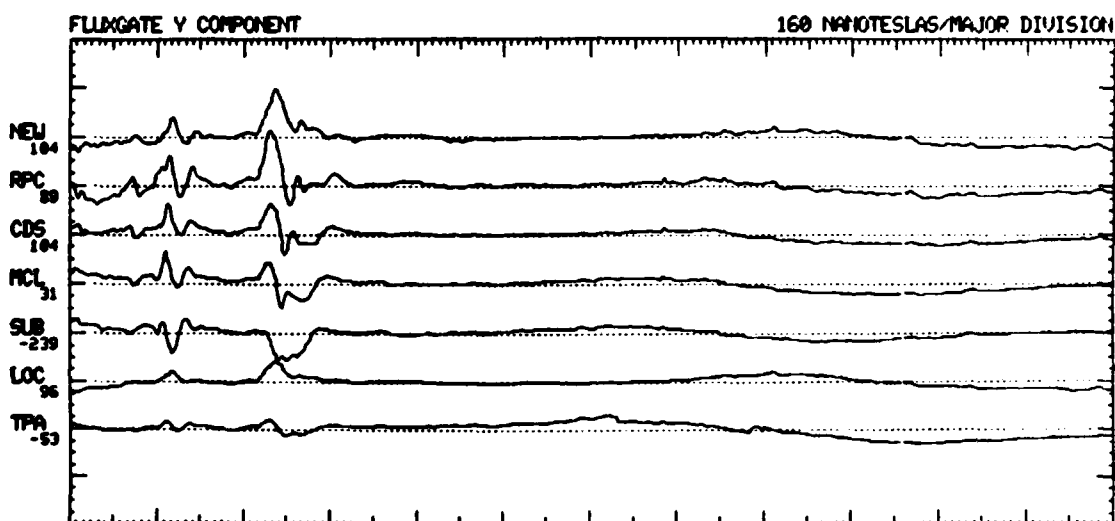
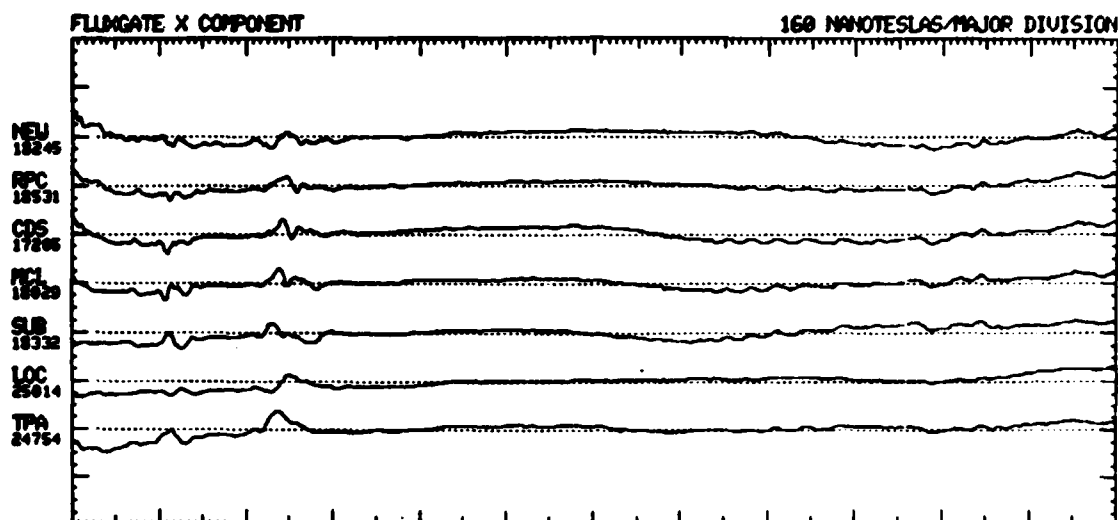
[illegible]

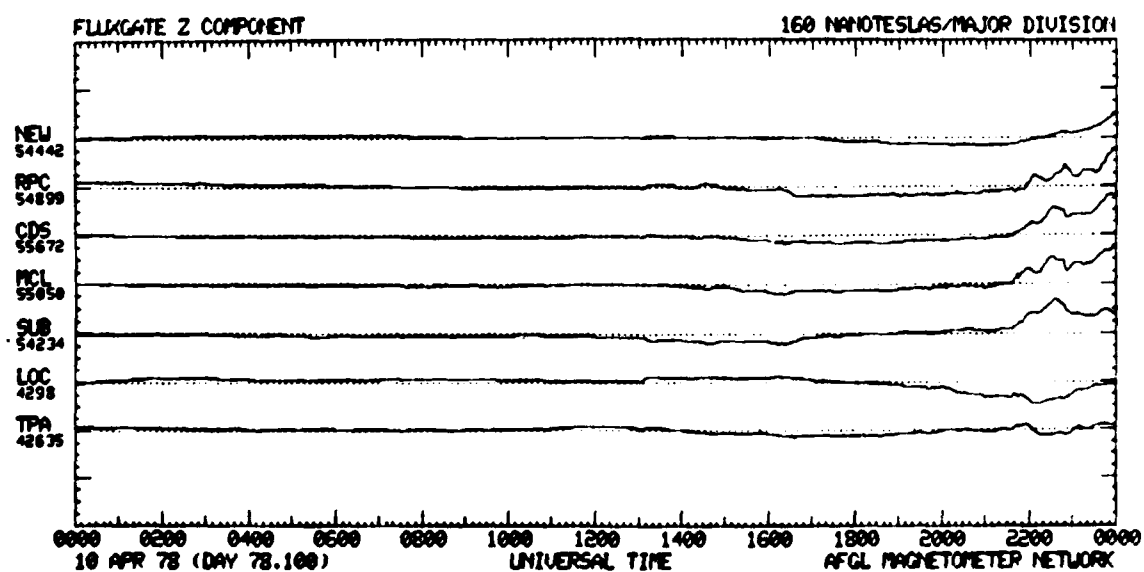
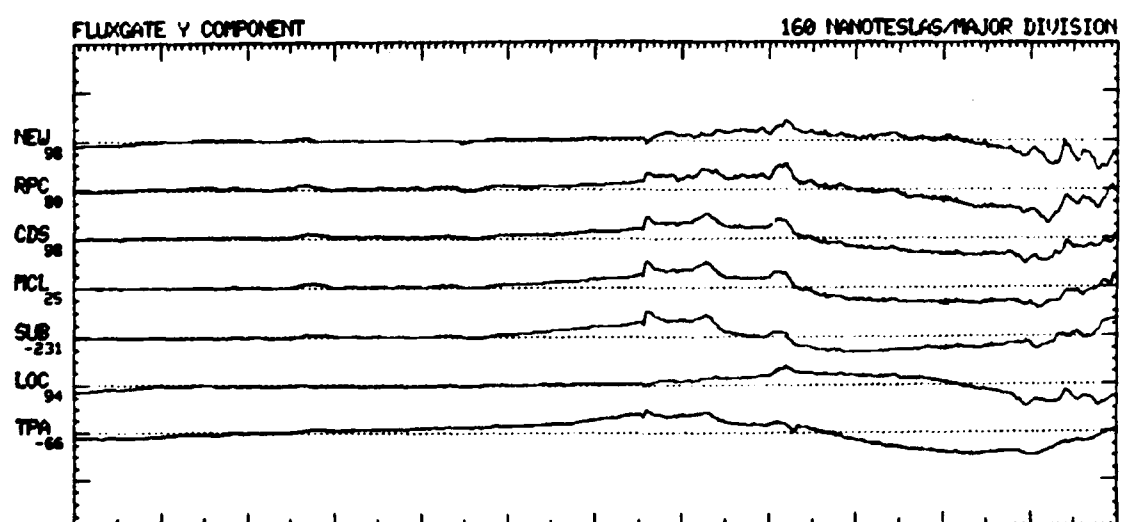
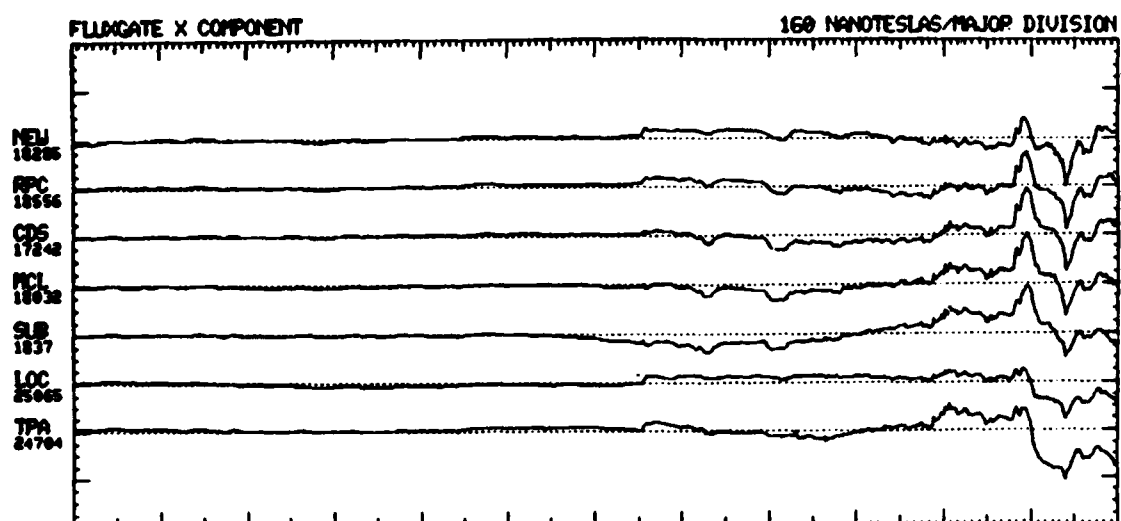


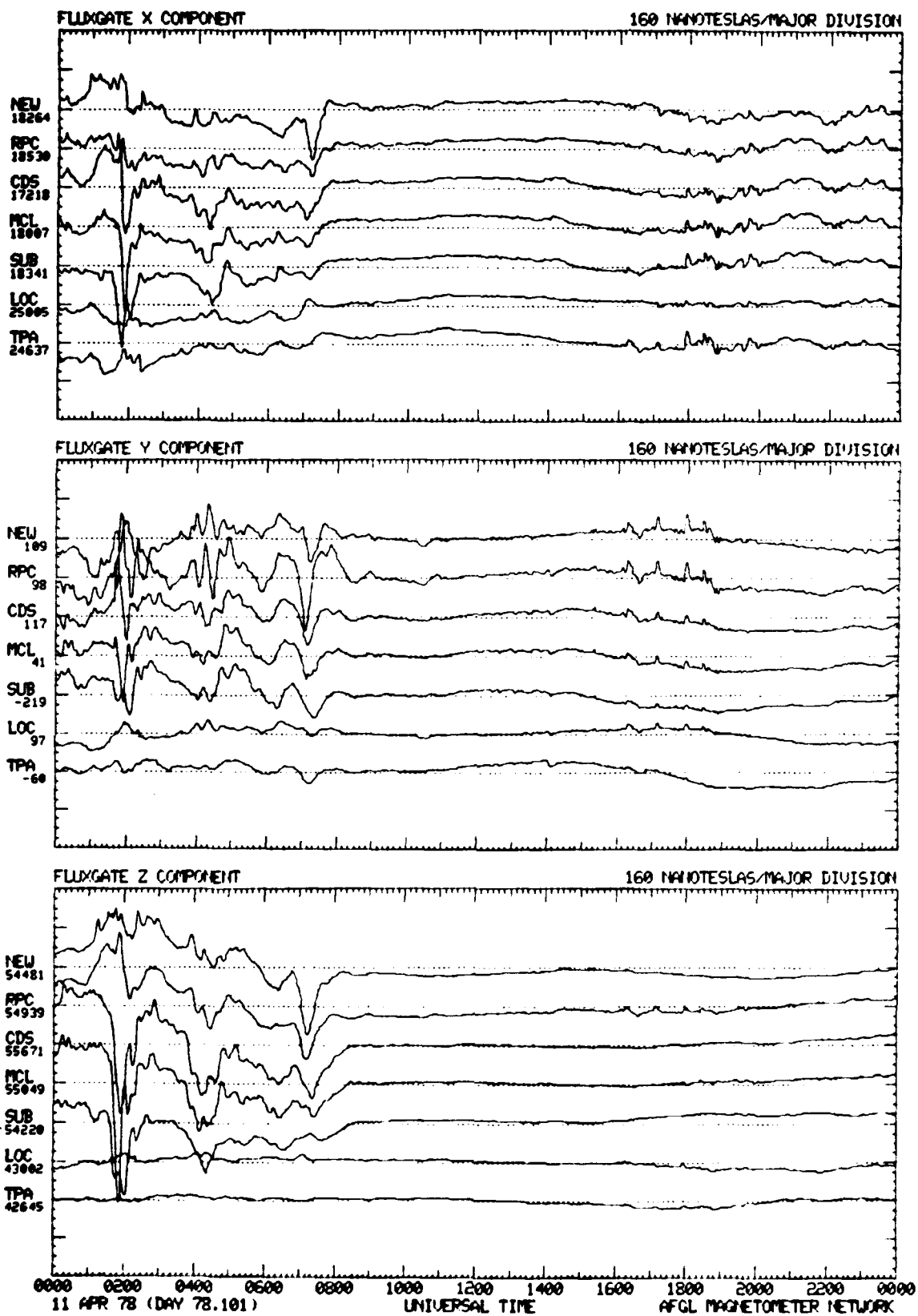
UNIT 1







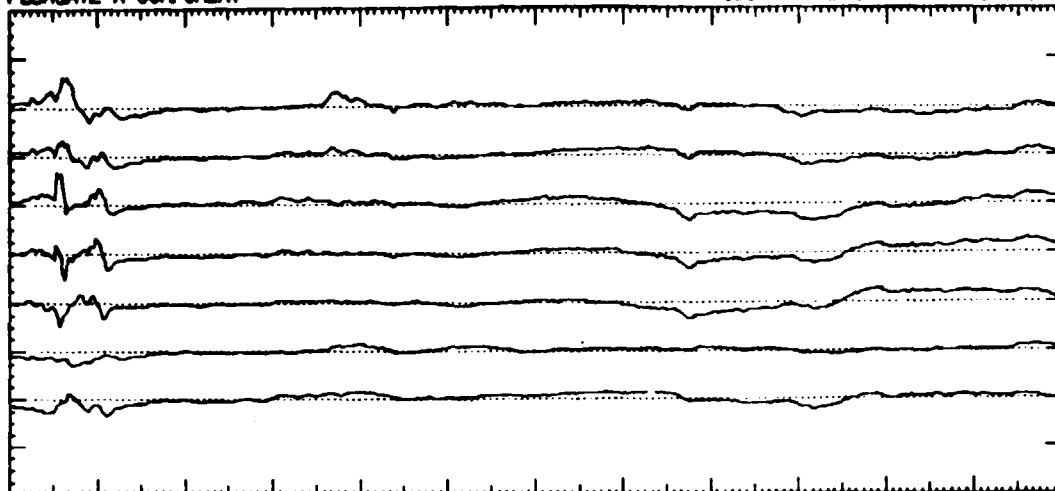




FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

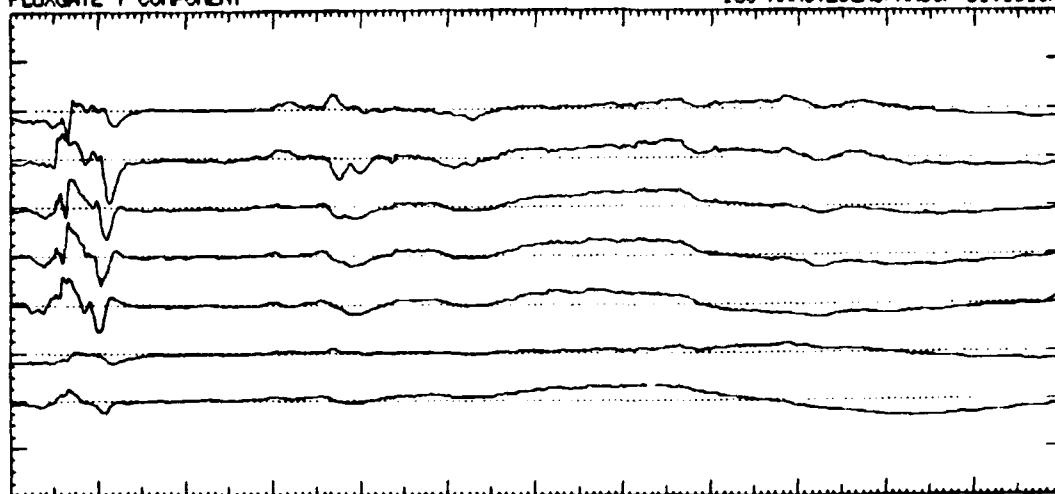
NEU
18253
RPC
1852
CDS
17207
MCL
18008
SUB
18344
LOC
25020
TPA
24638



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

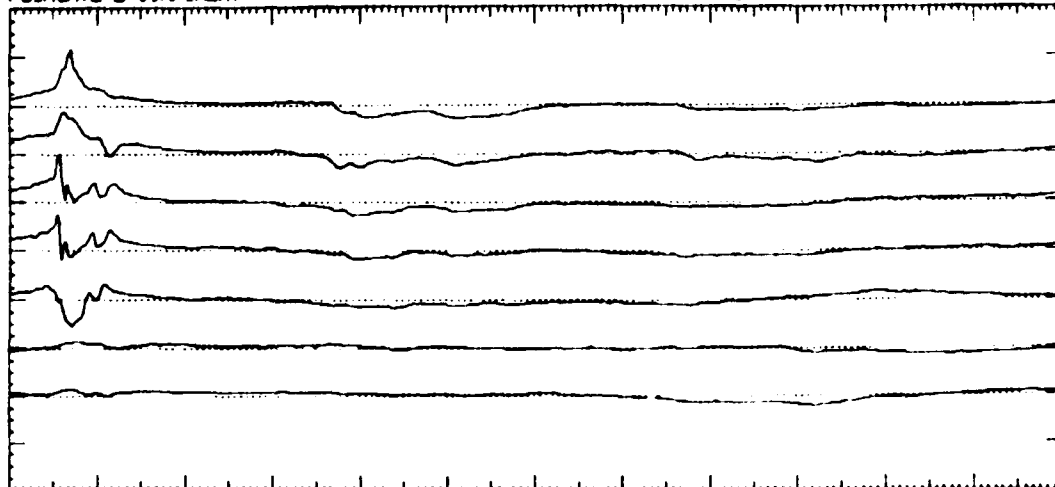
NEU
99
RPC
88
CDS
105
MCL
29
SUB
-228
LOC
94
TPA
-74



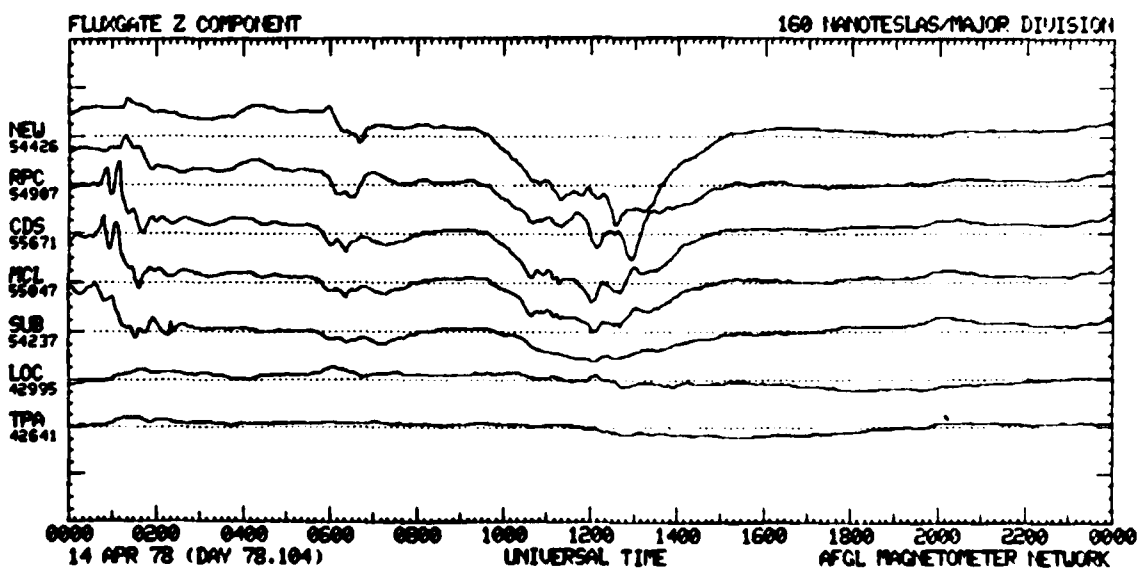
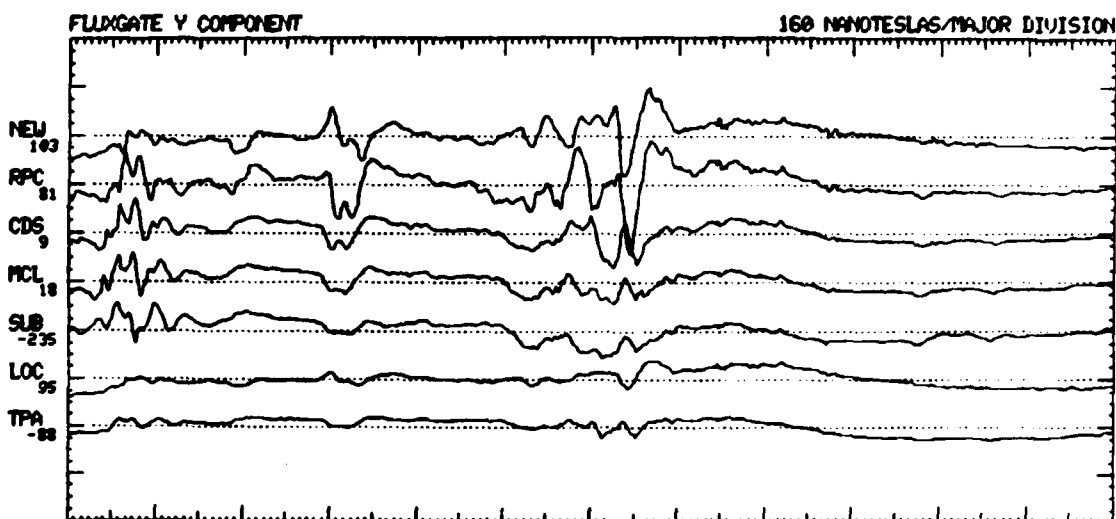
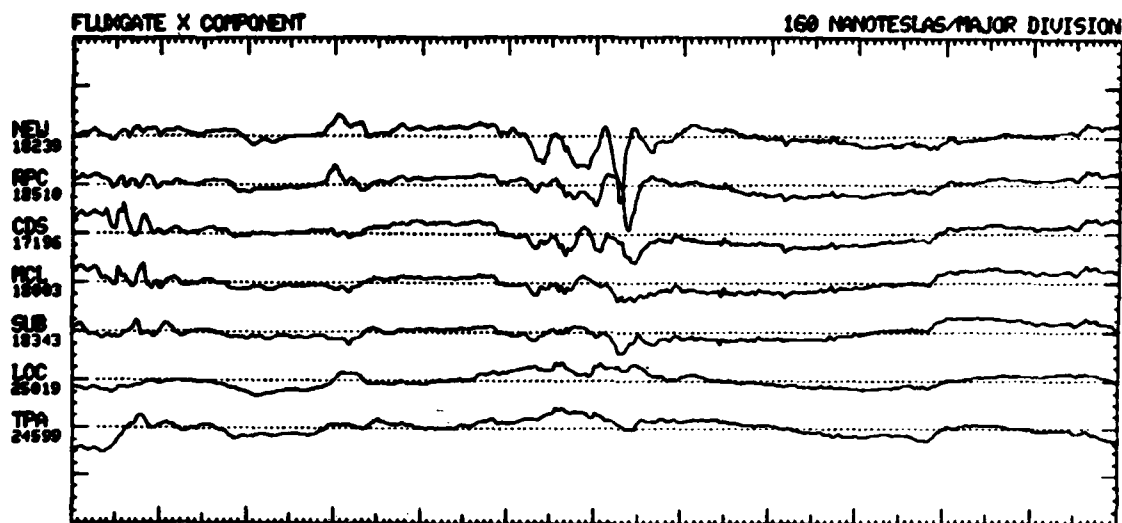
FLUXGATE Z COMPONENT

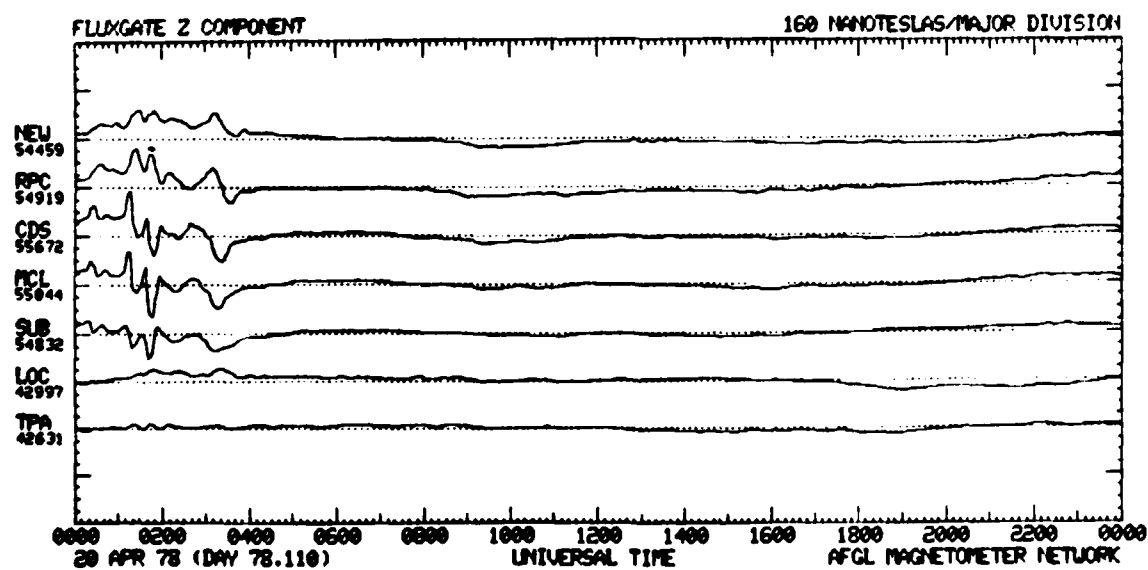
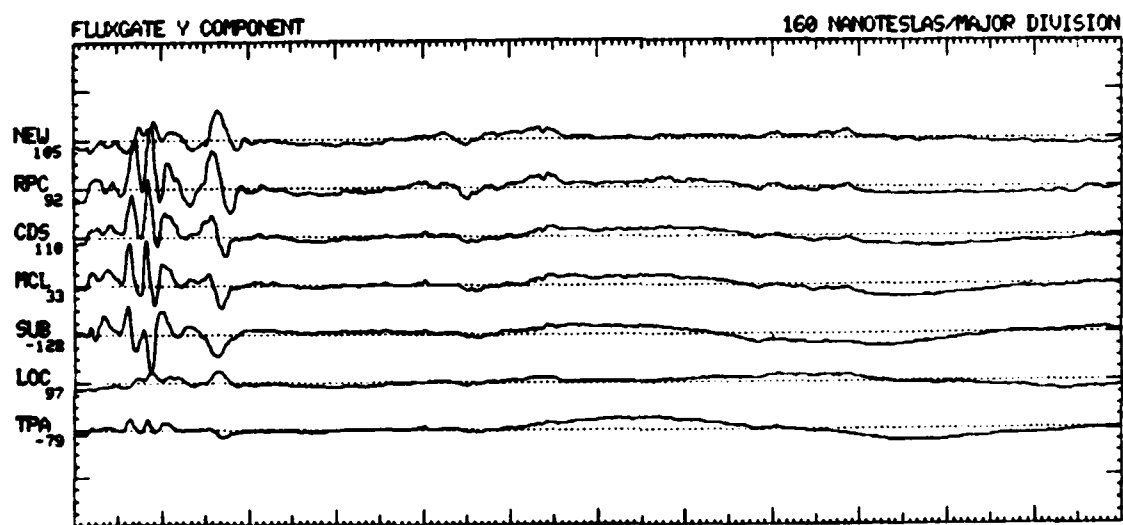
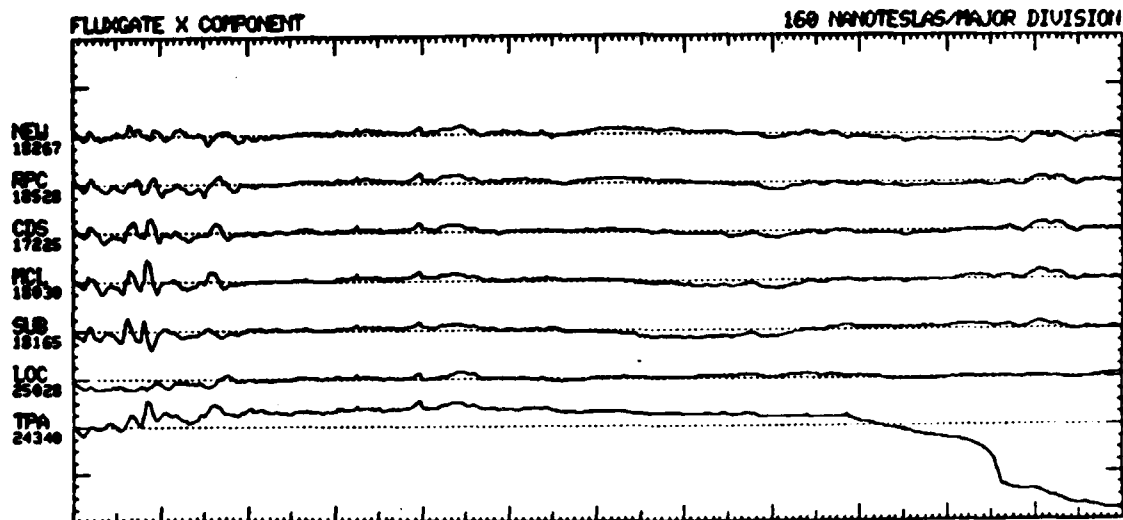
160 NANOTESLAS/MAJOR DIVISION

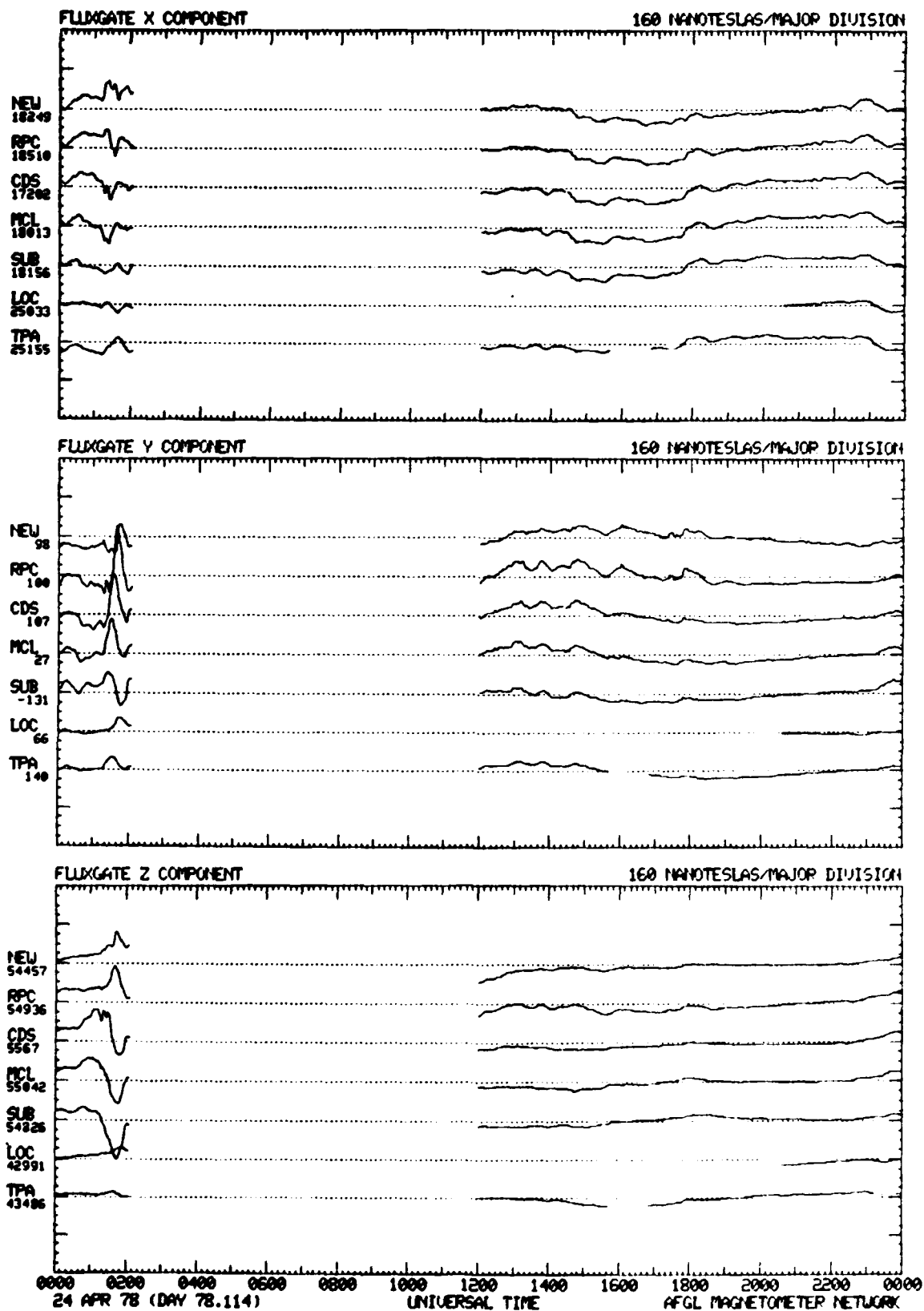
NEU
54454
RPC
54921
CDS
5568
MCL
55056
SUB
5424
LOC
43001
TPA
42641

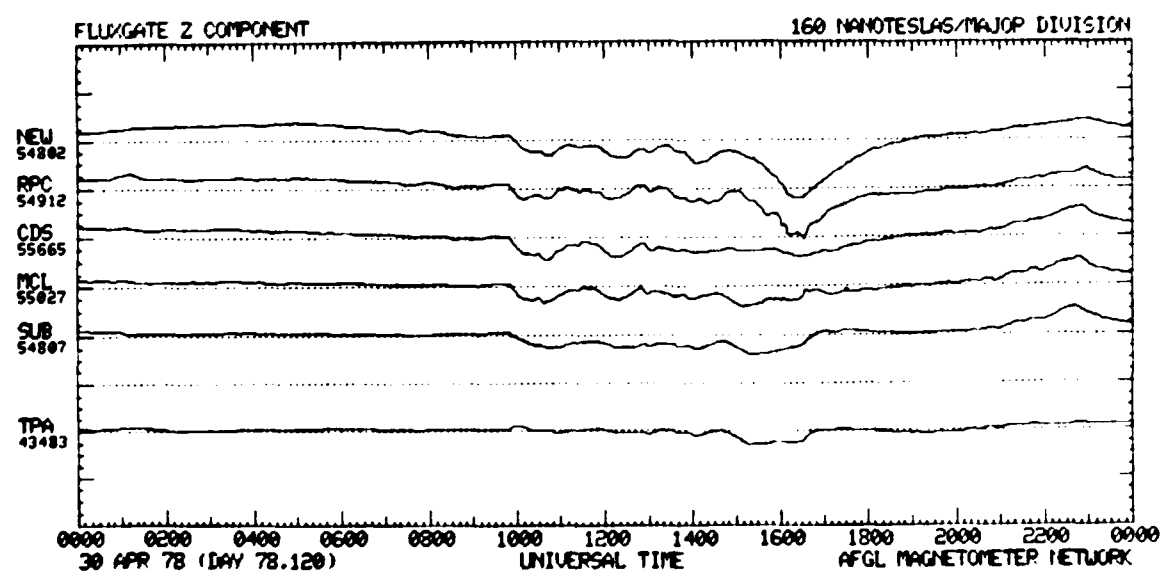
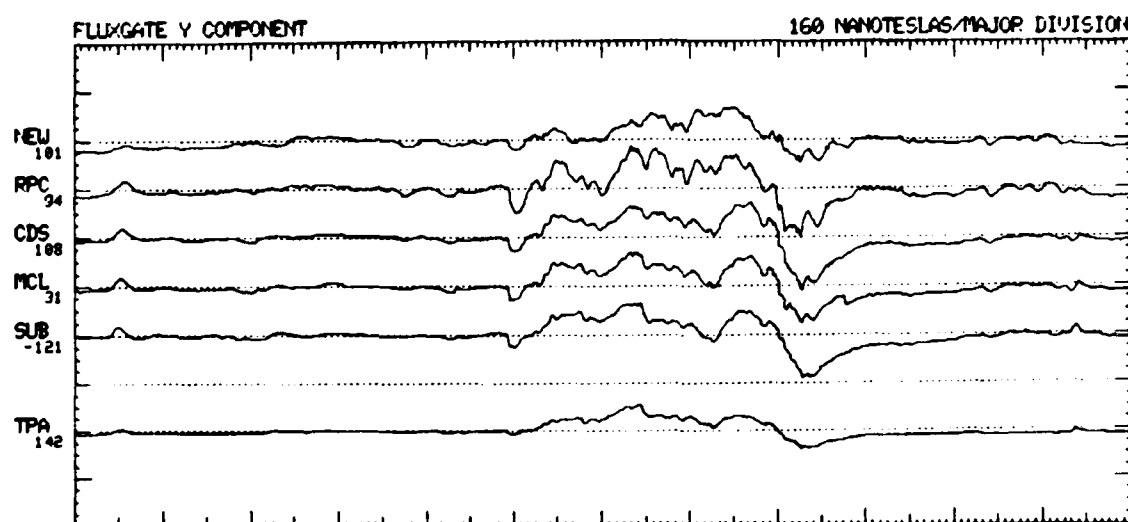
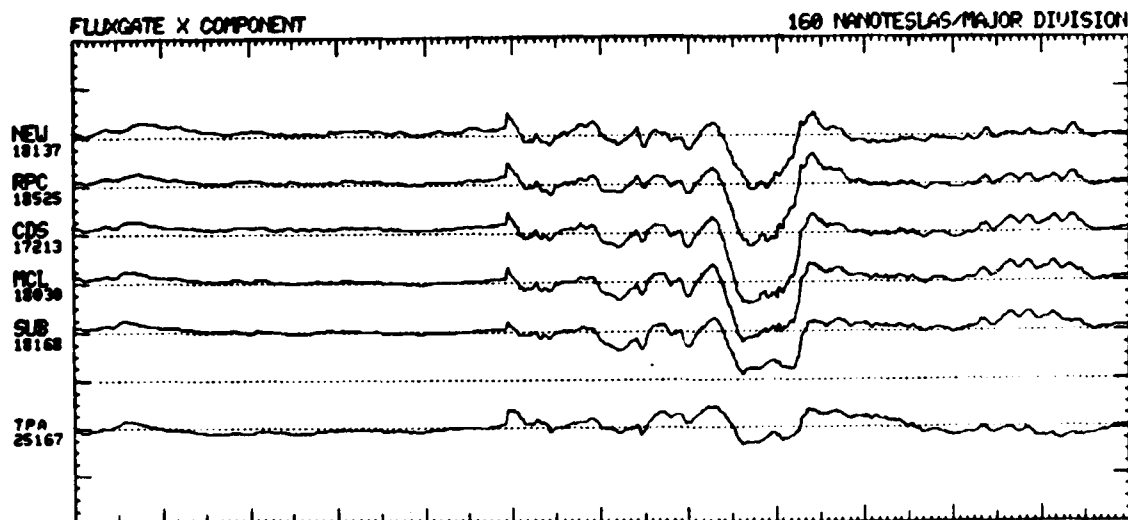


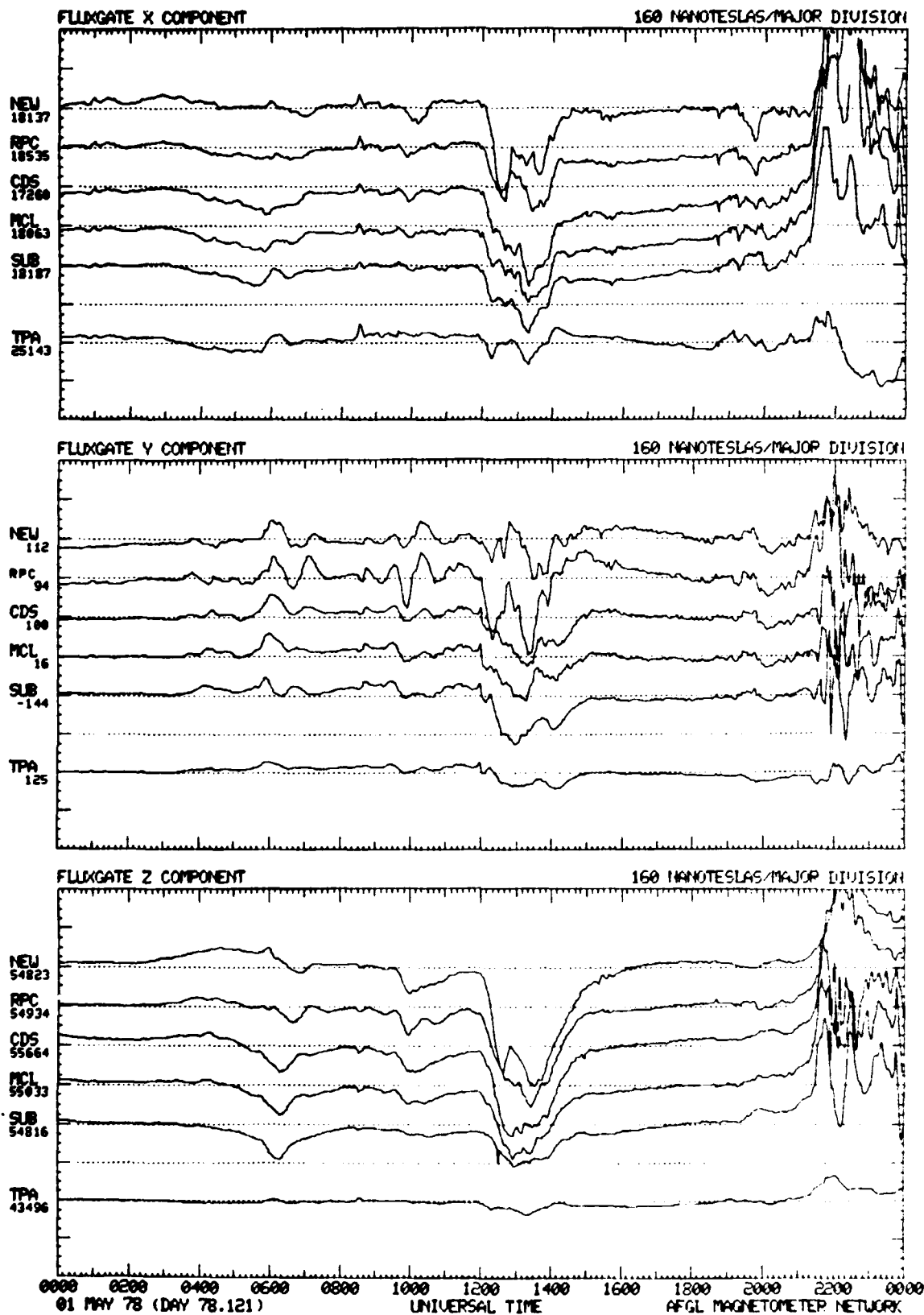
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
12 APR 78 (DAY 78.102) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

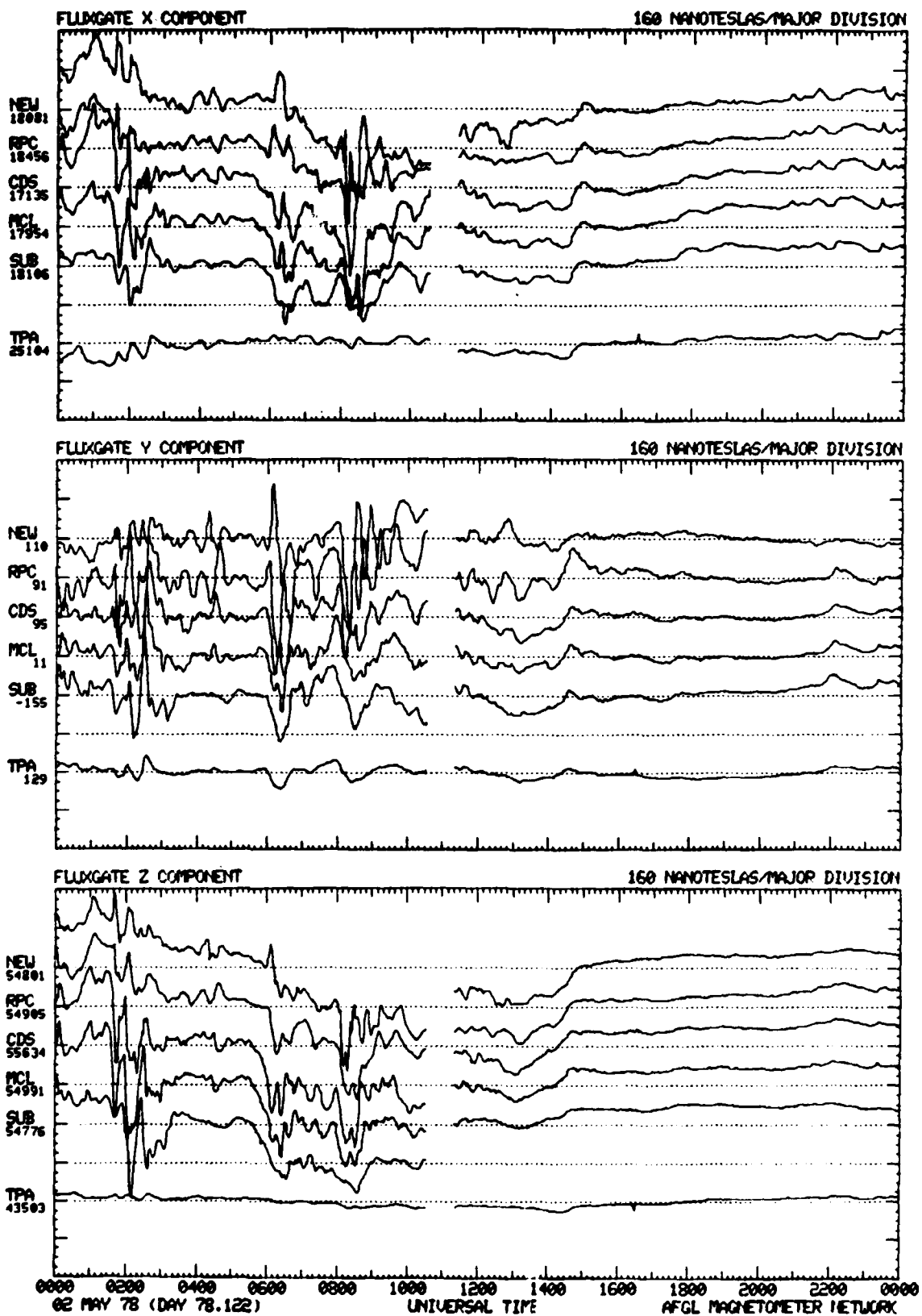


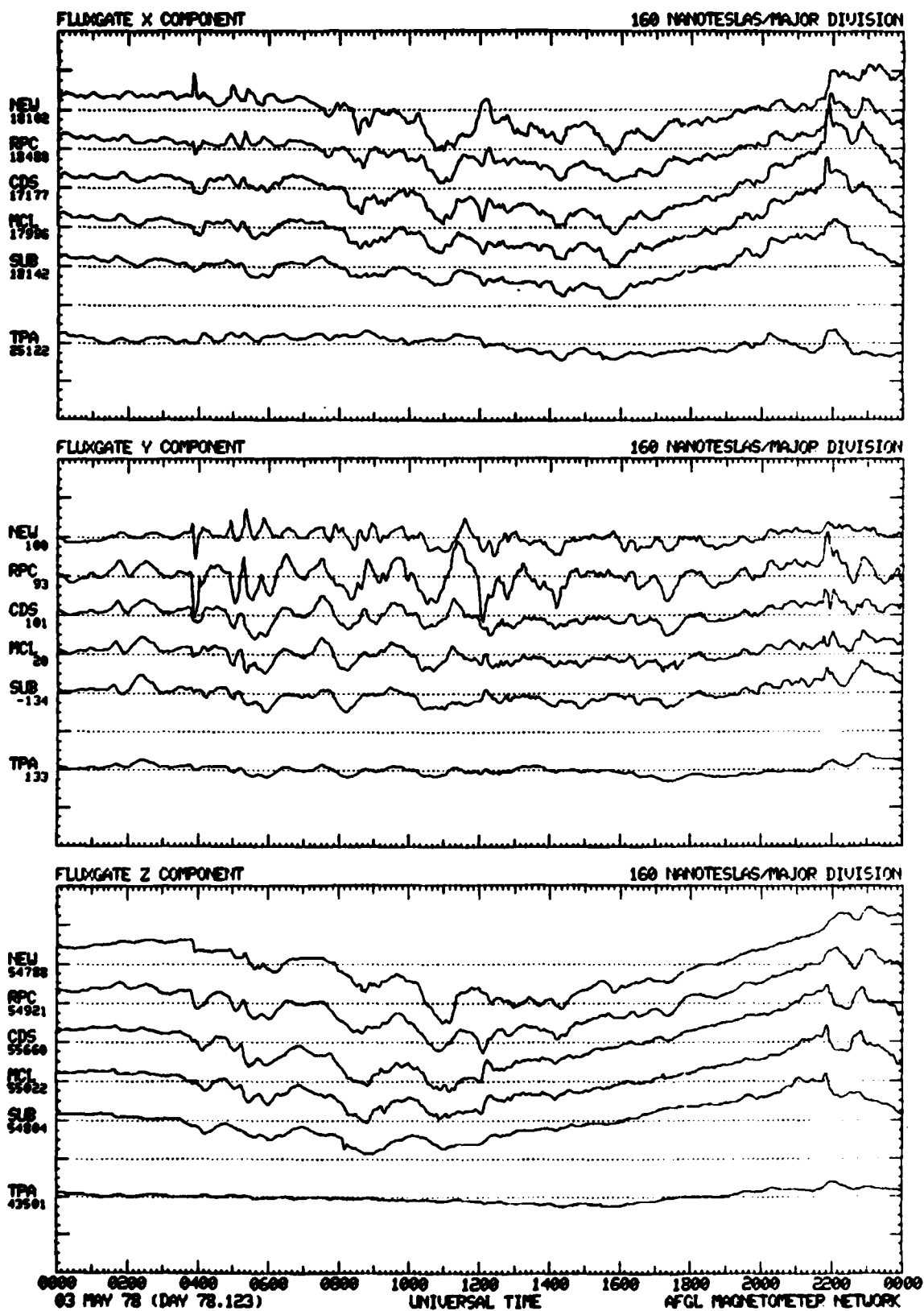


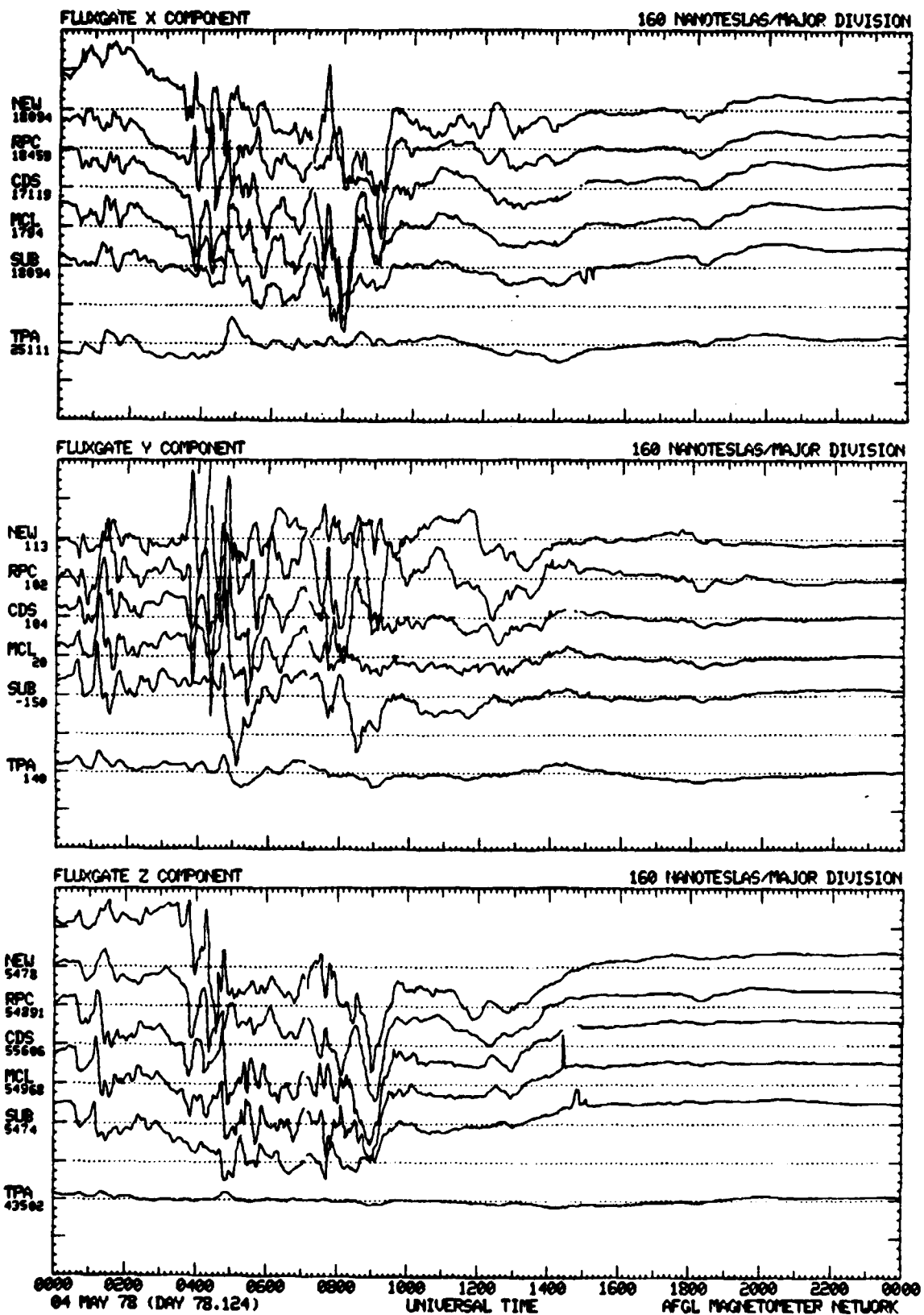


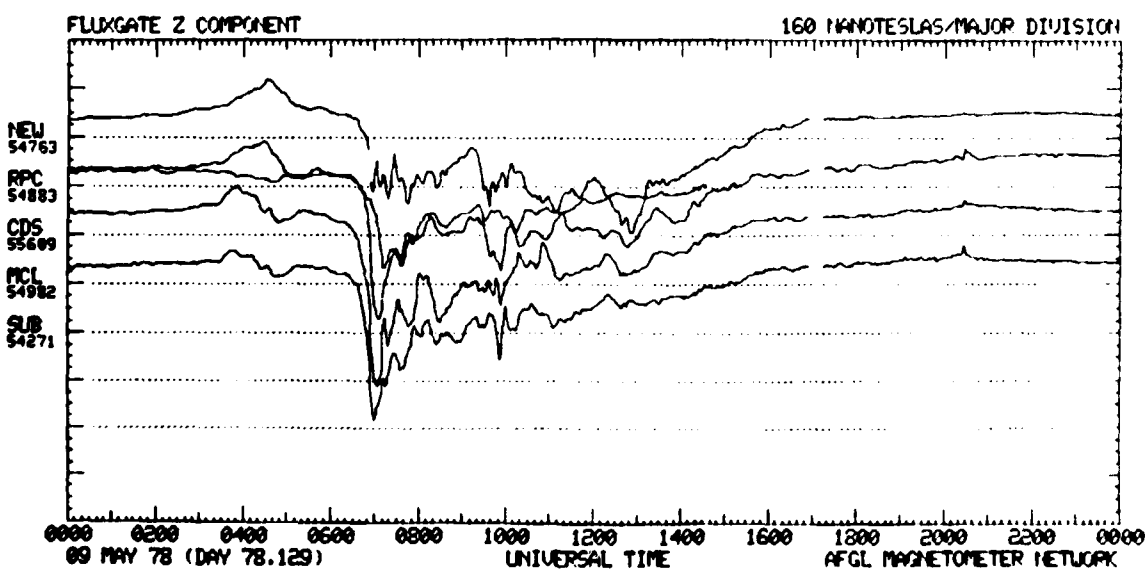
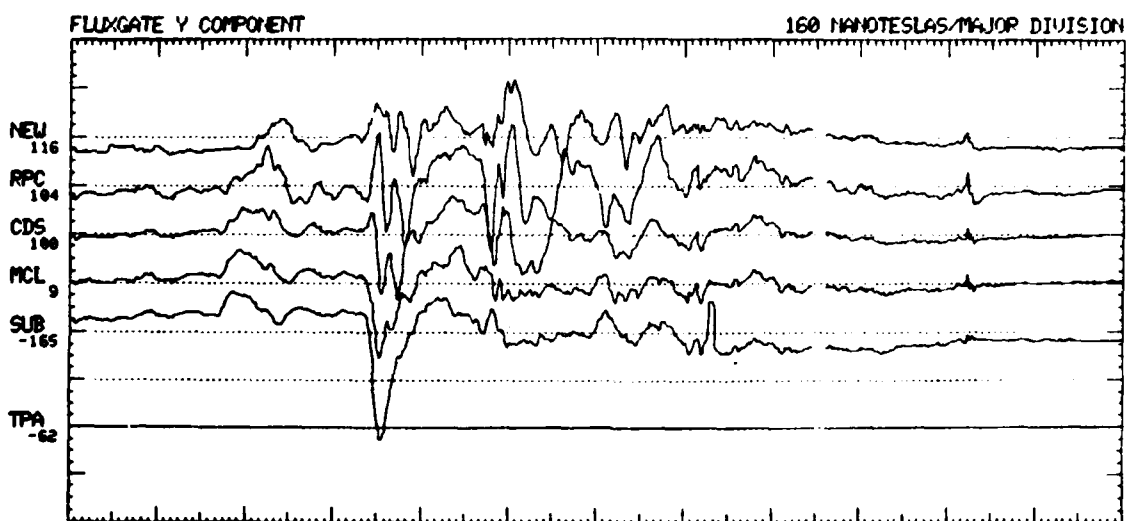
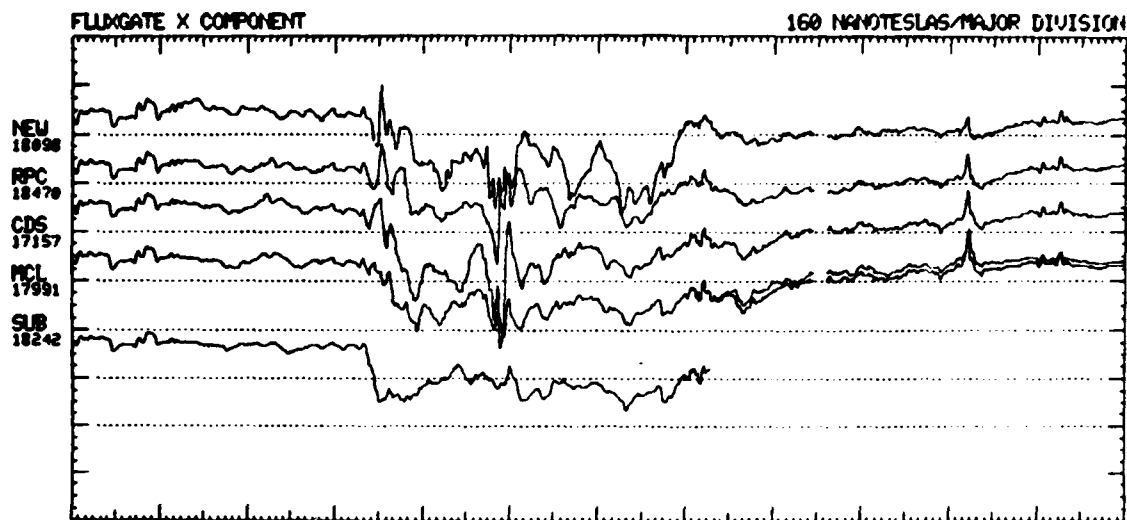


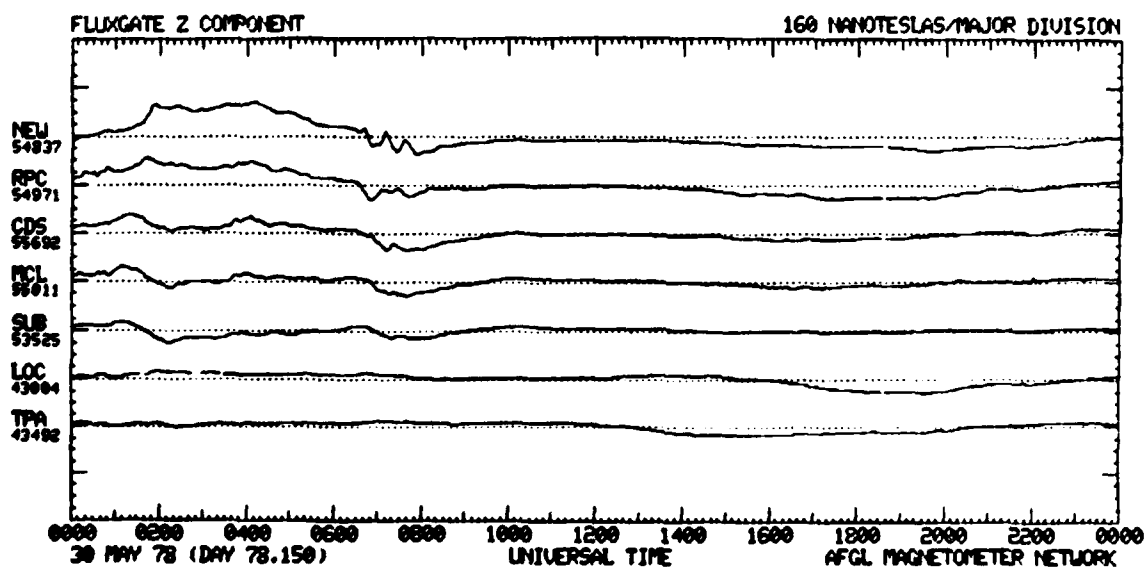
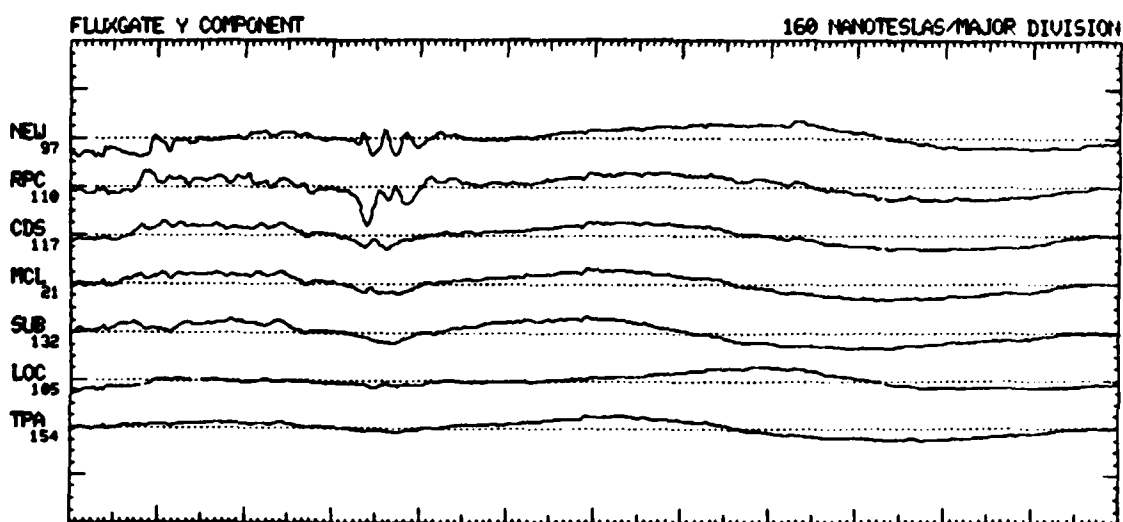
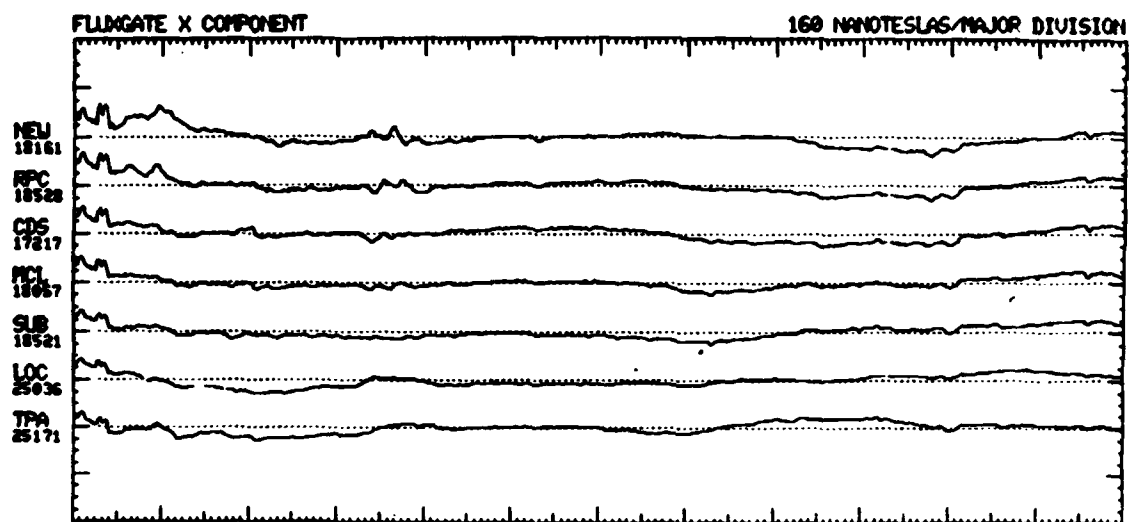


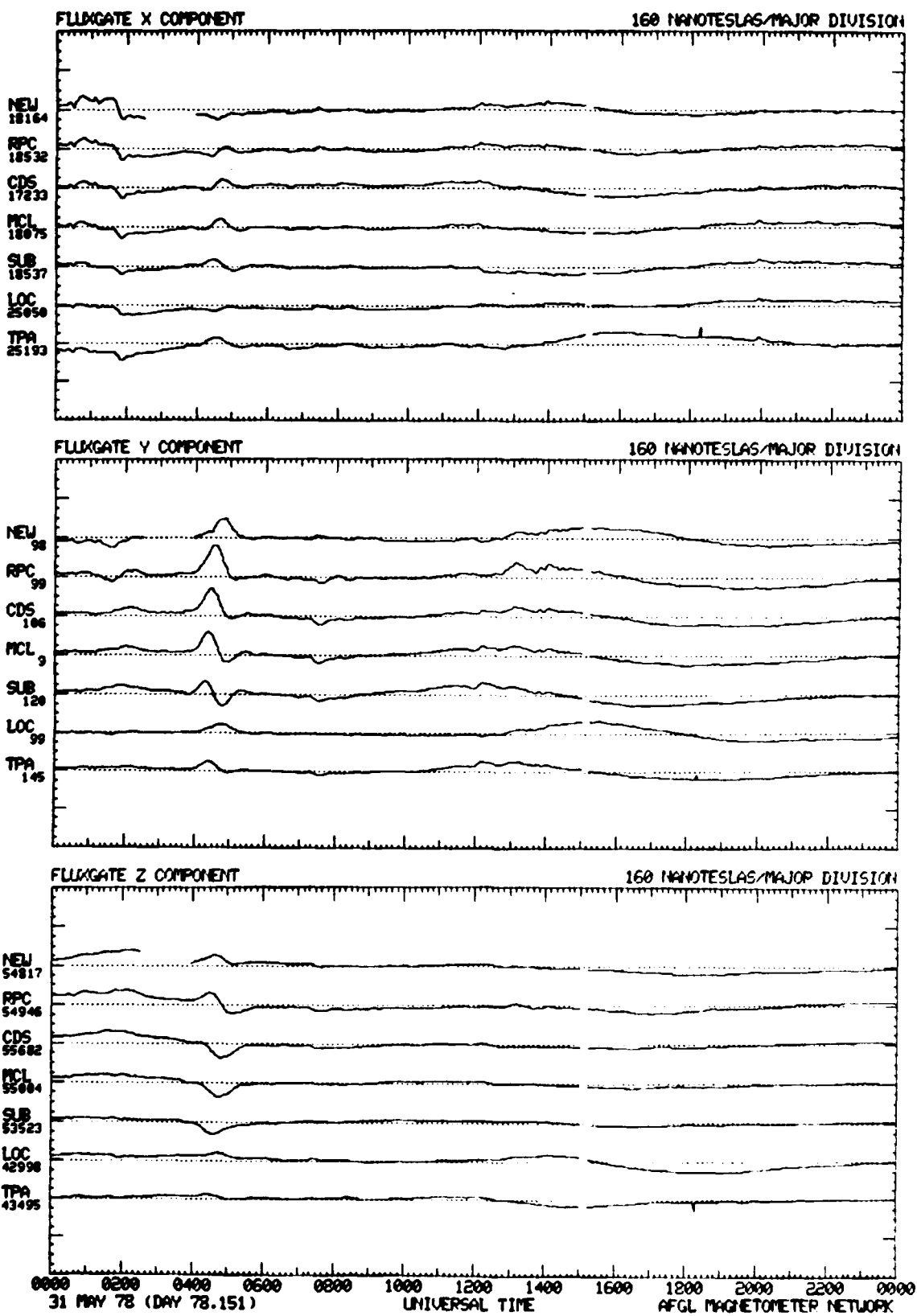








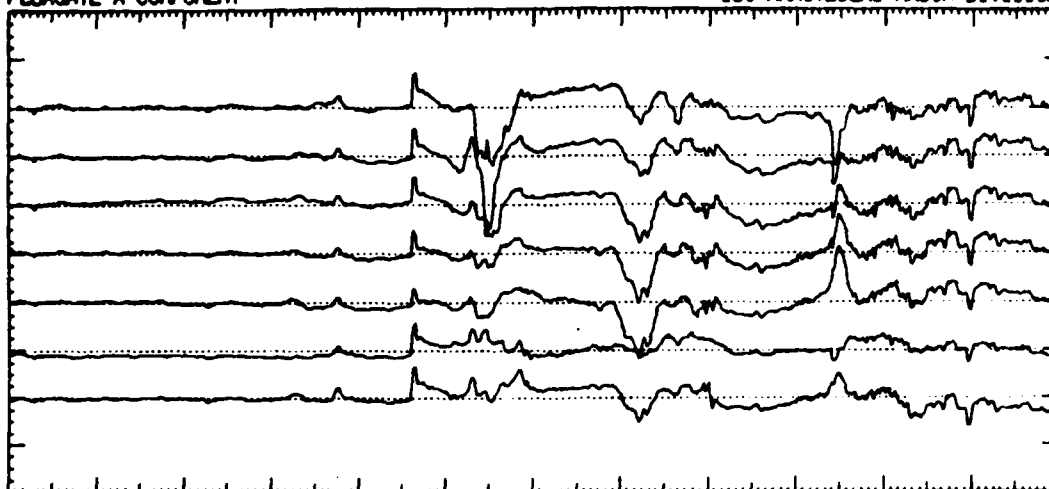




FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

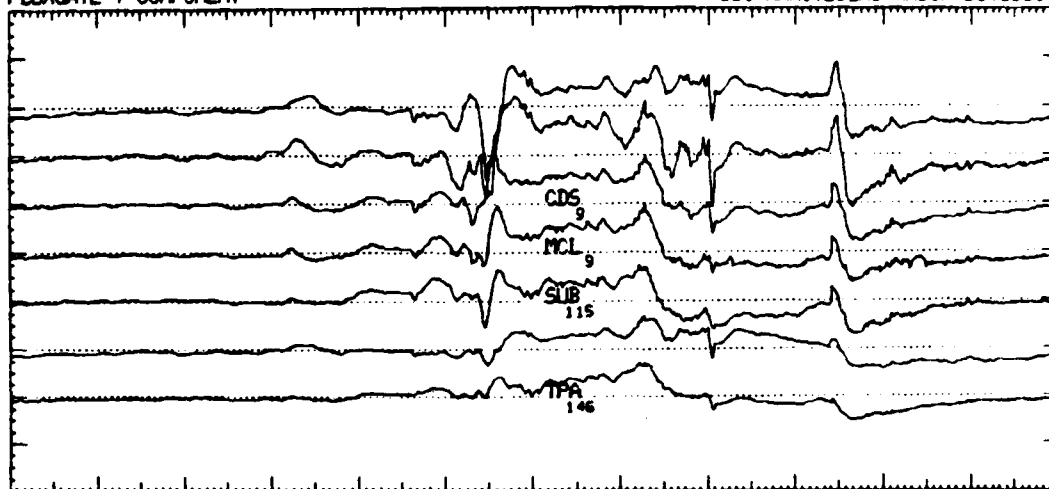
NEU
18176
RPC
18546
CDS
17243
MCL
18088
SUB
18555
LOC
25082
TPA
25208



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

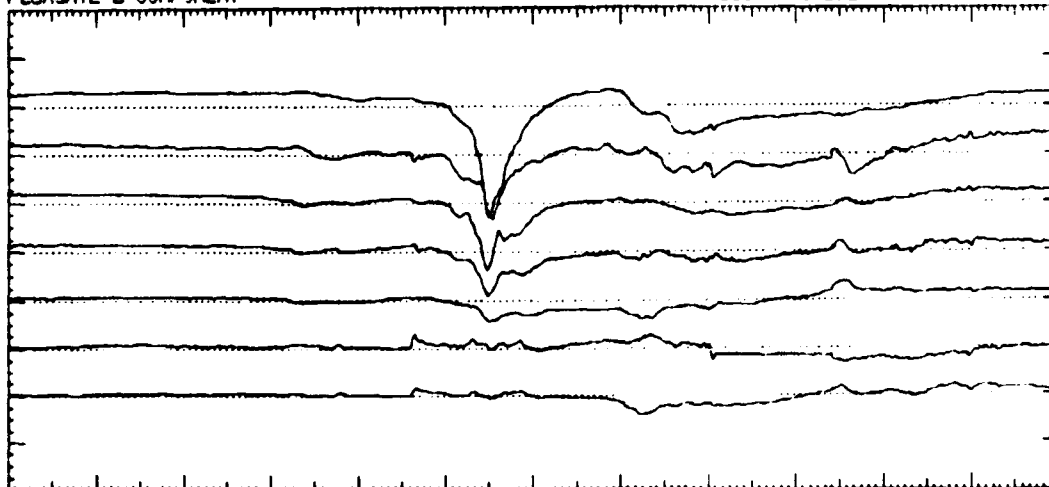
NEU
102
RPC
9
CDS
9
MCL
9
SUB
115
LOC
101
TPA
146



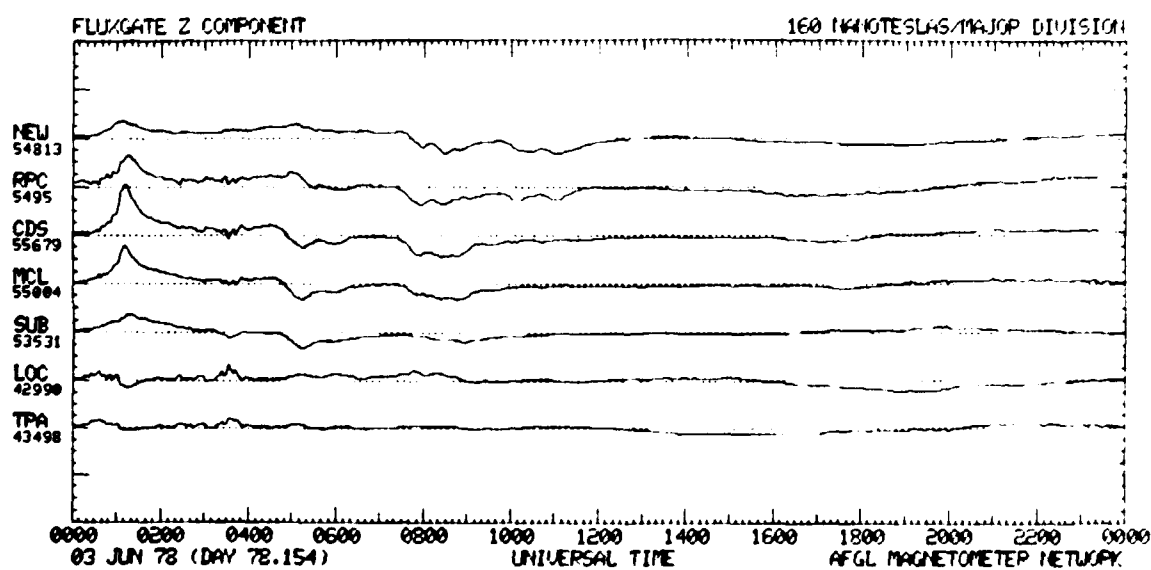
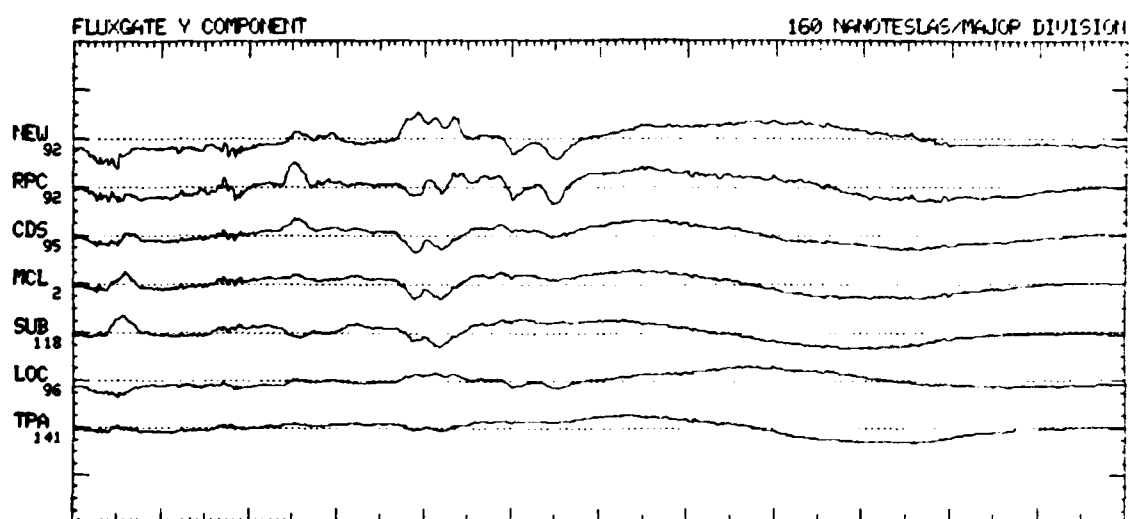
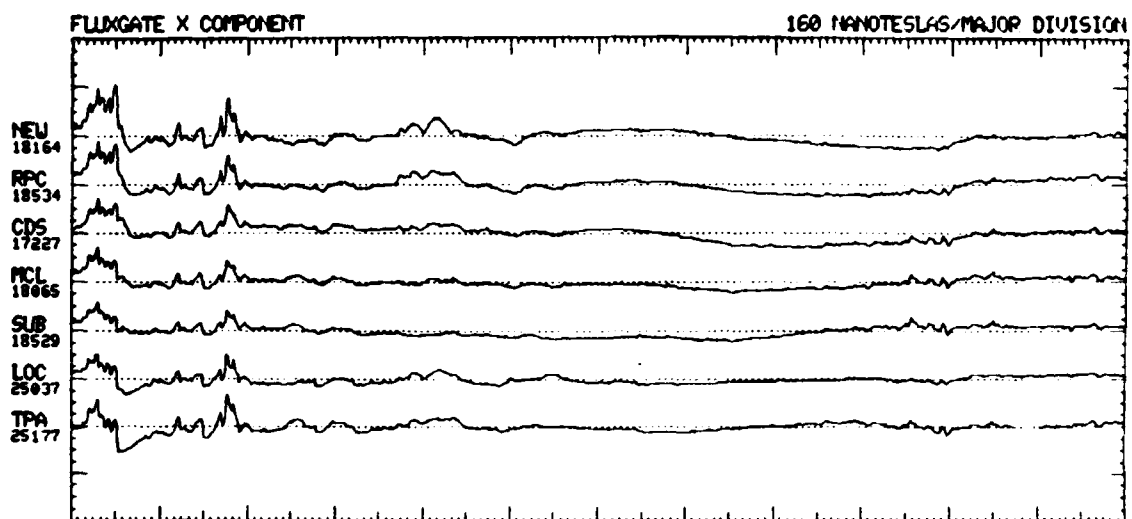
FLUXGATE Z COMPONENT

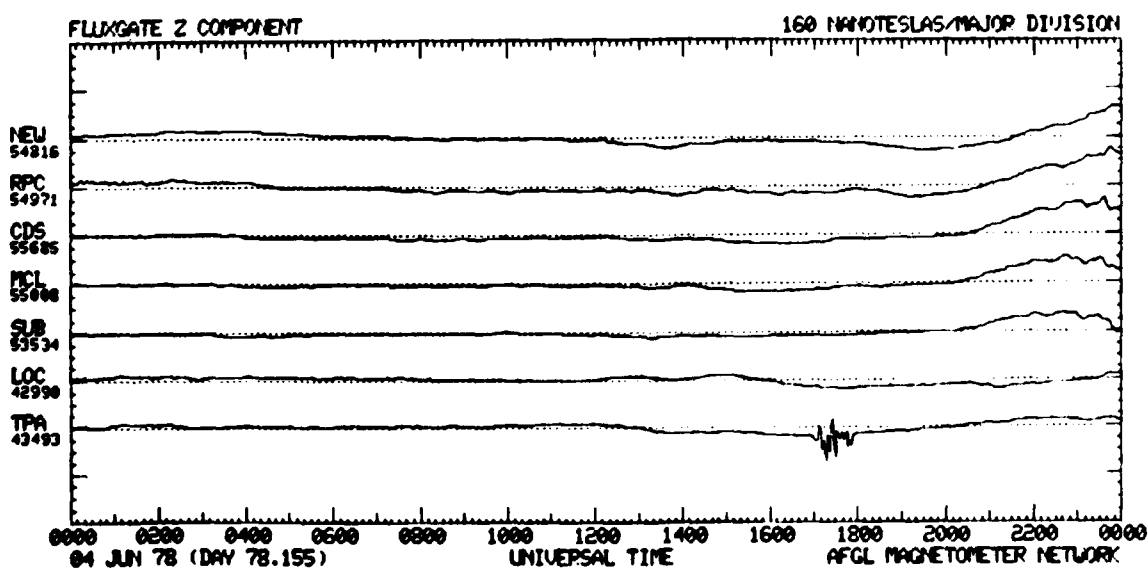
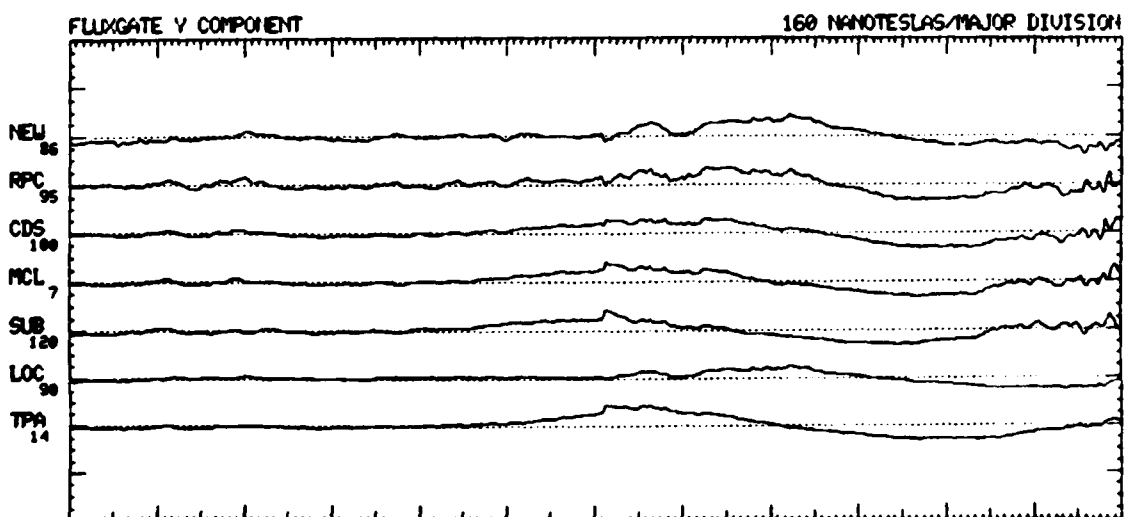
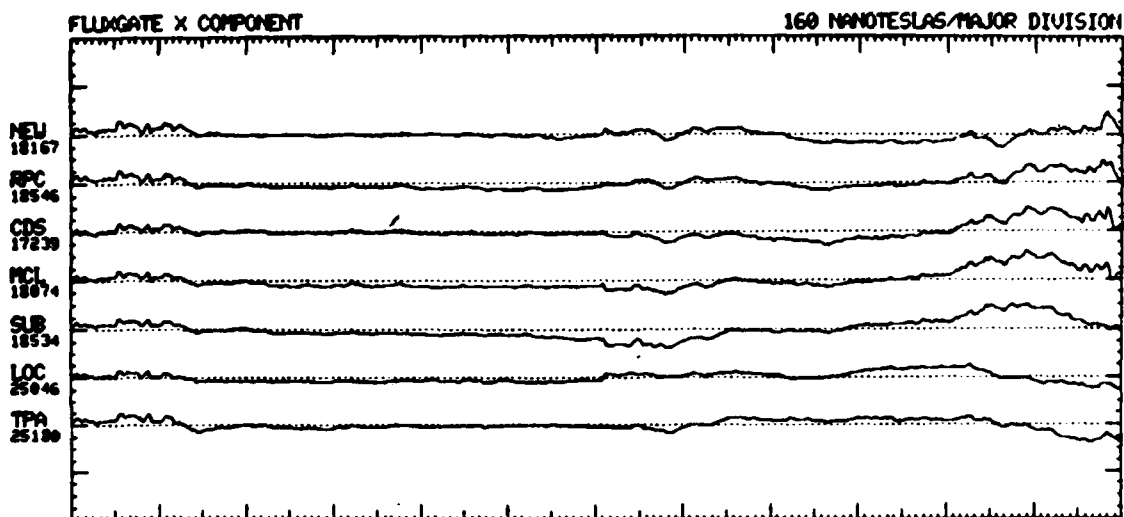
160 NANOTESLAS/MAJOR DIVISION

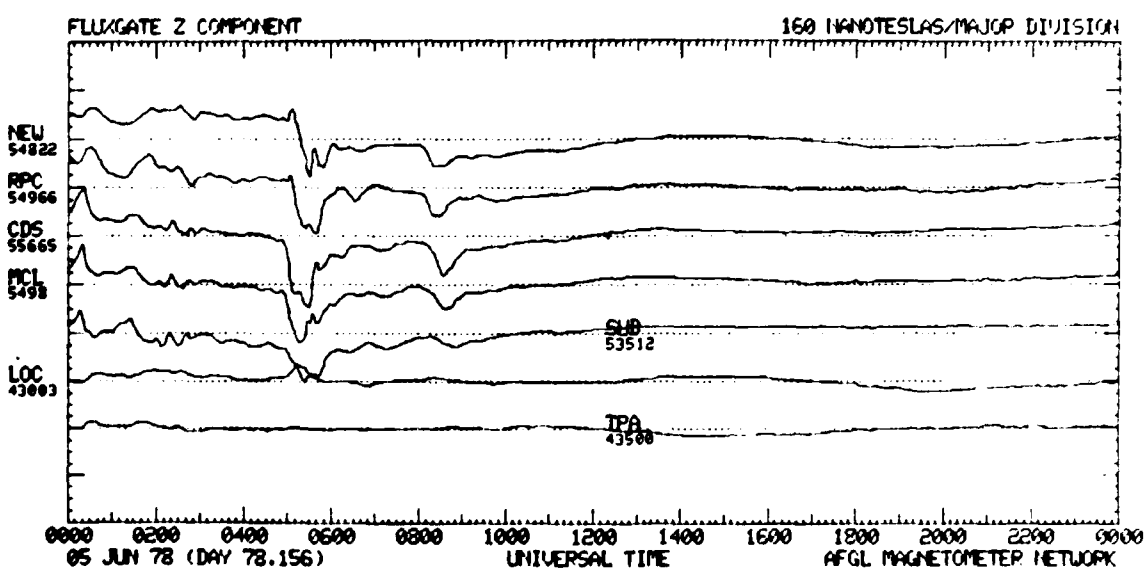
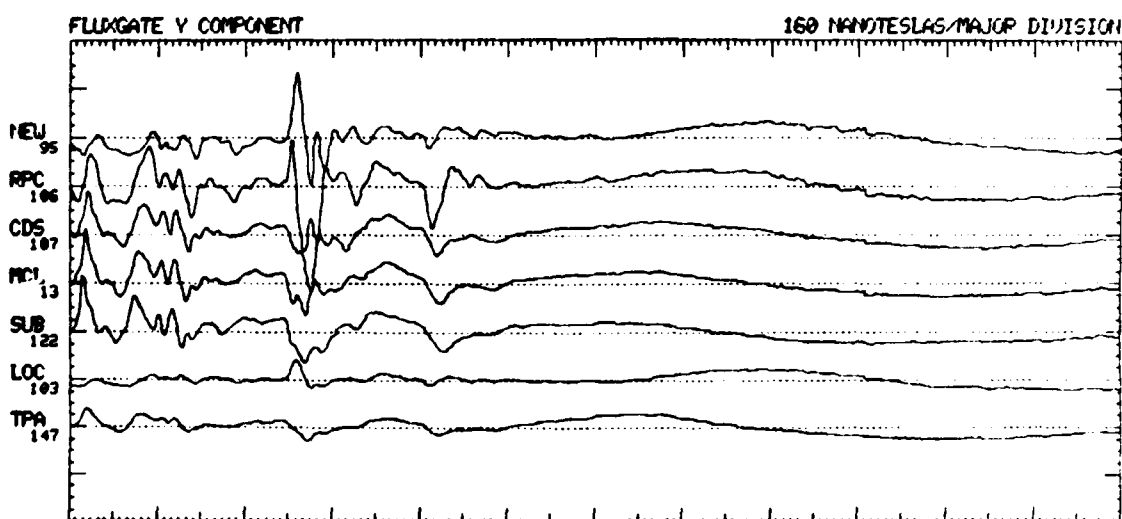
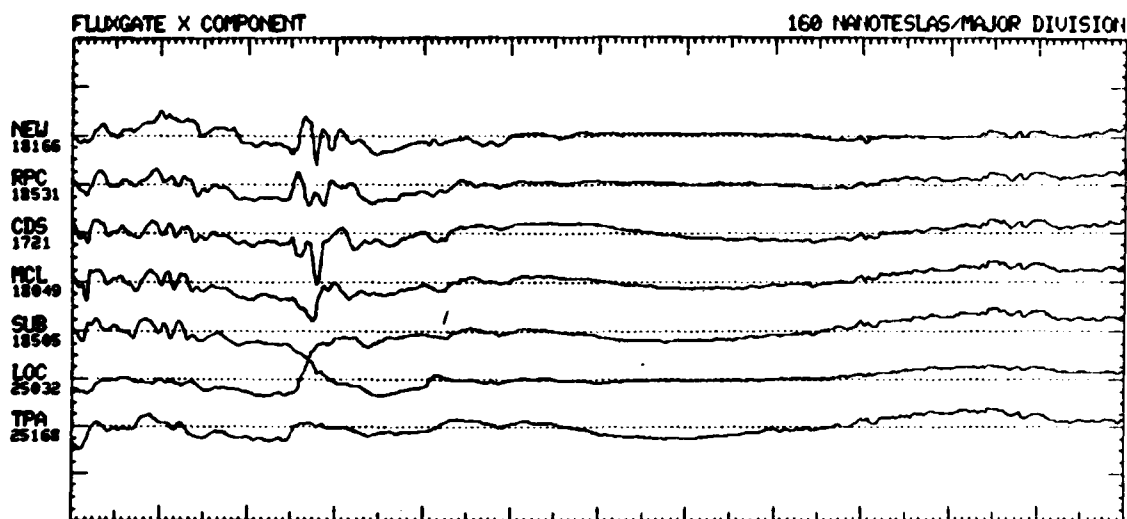
NEU
54773
RPC
54910
CDS
55648
MCL
54979
SUB
53509
LOC
42982
TPA
43489

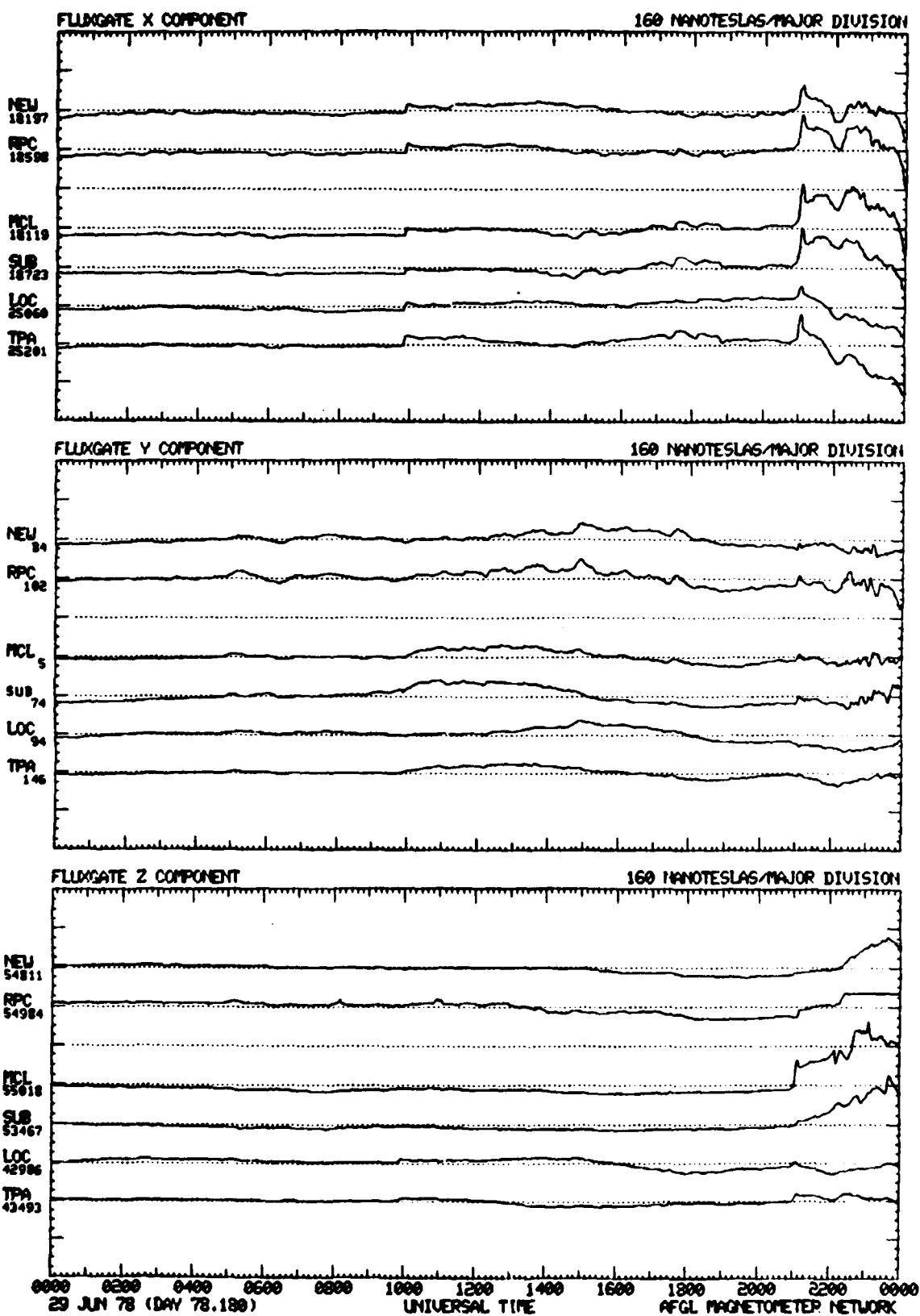


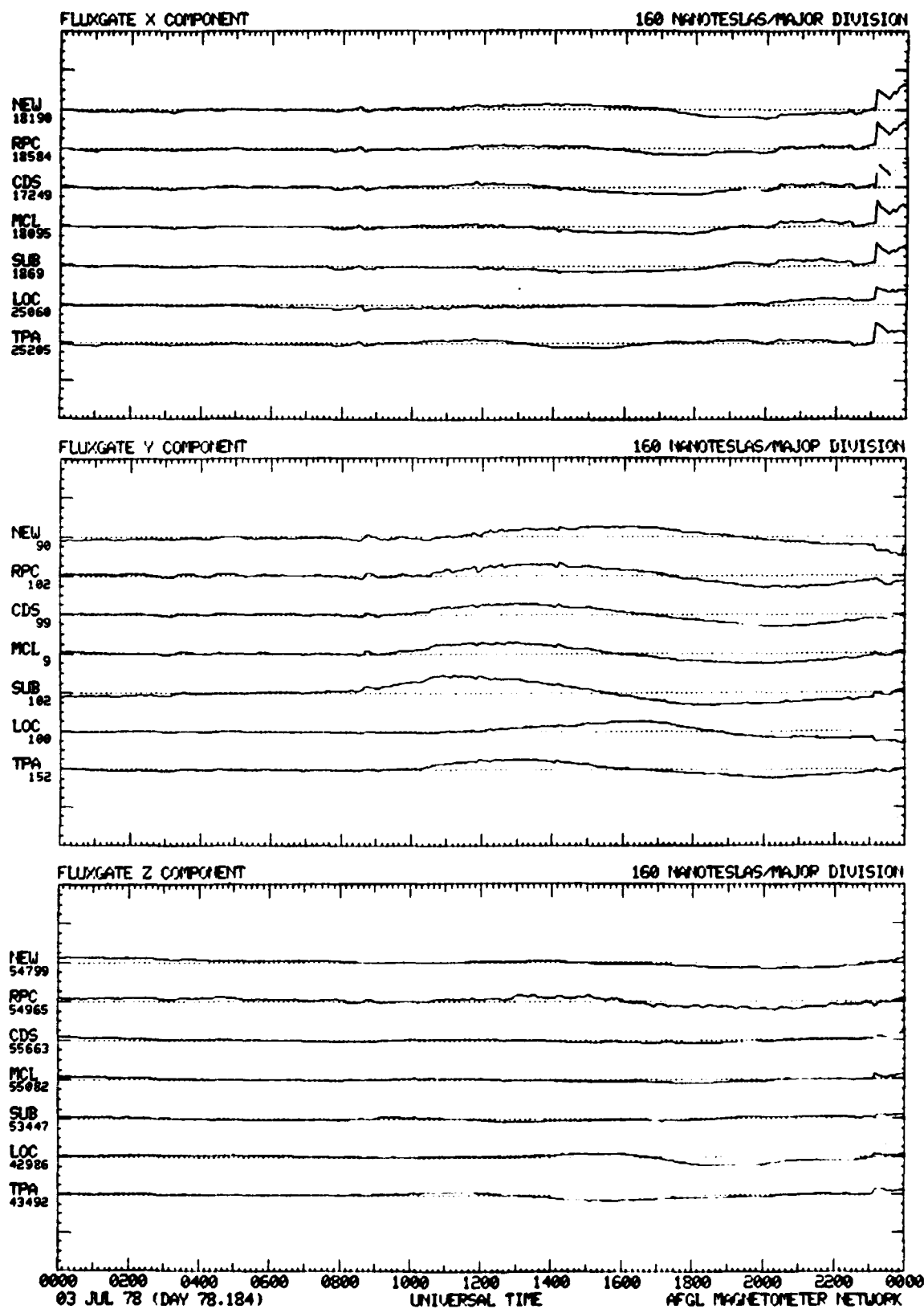
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02 JUN 78 (DAY 78.153) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

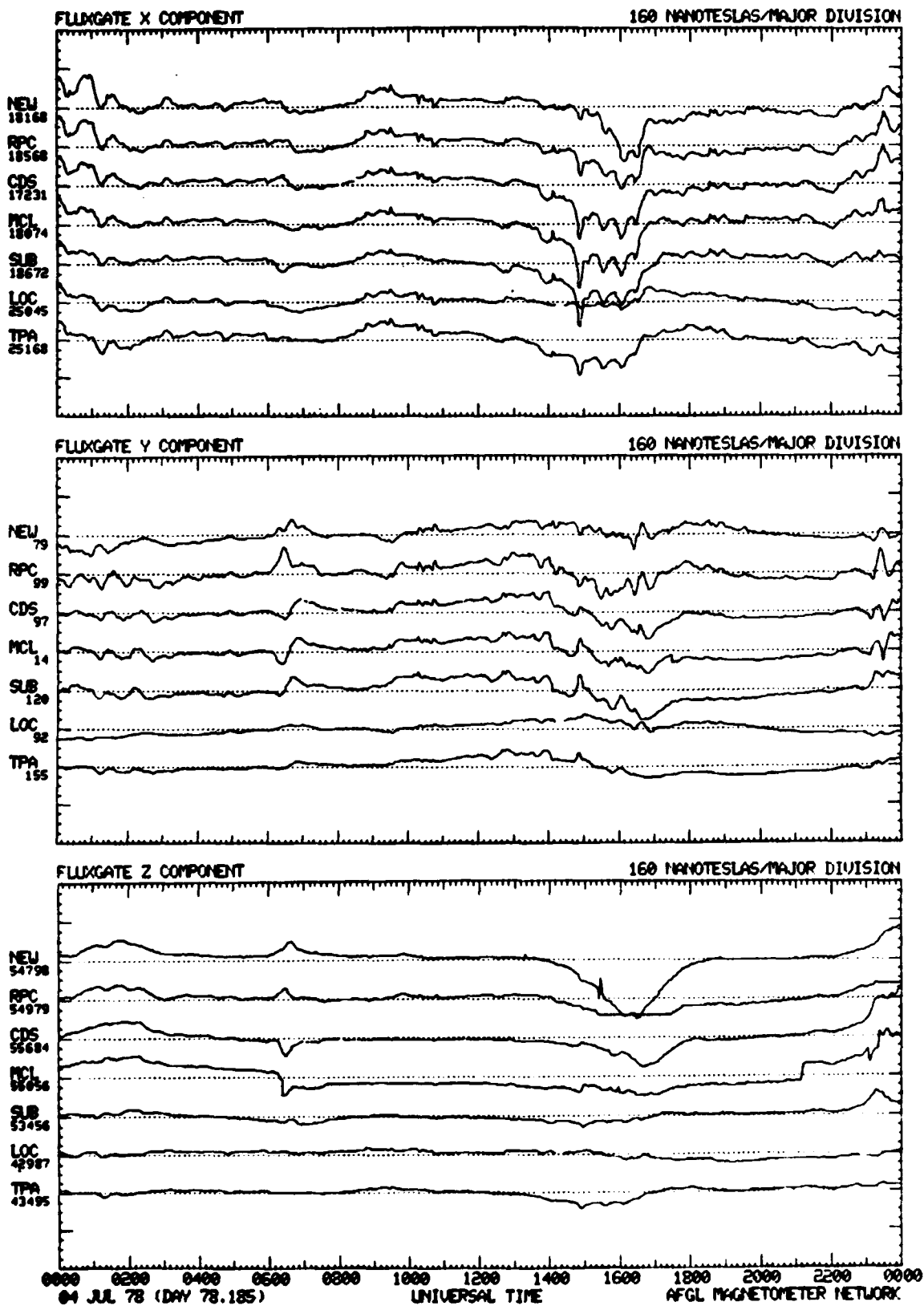


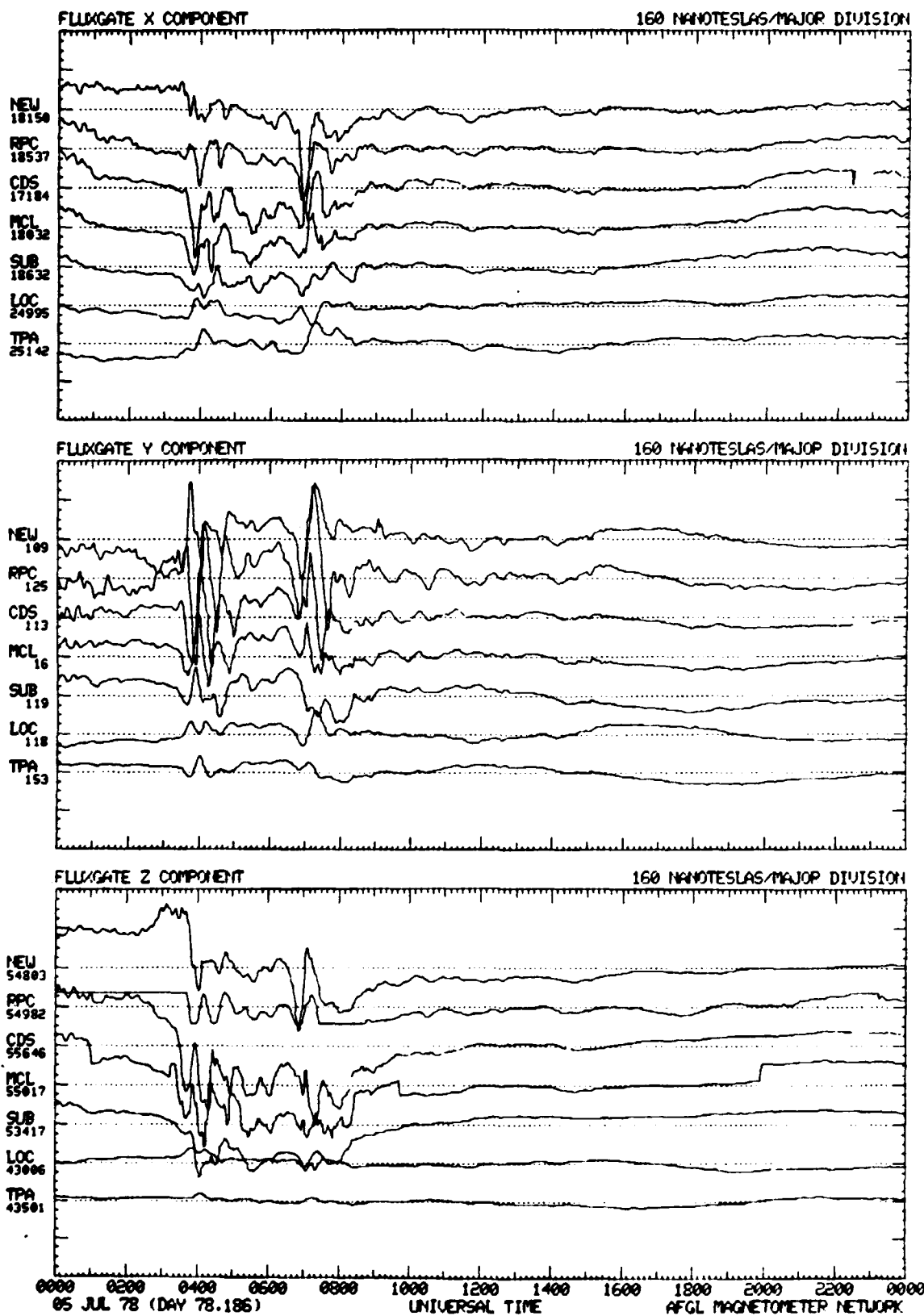


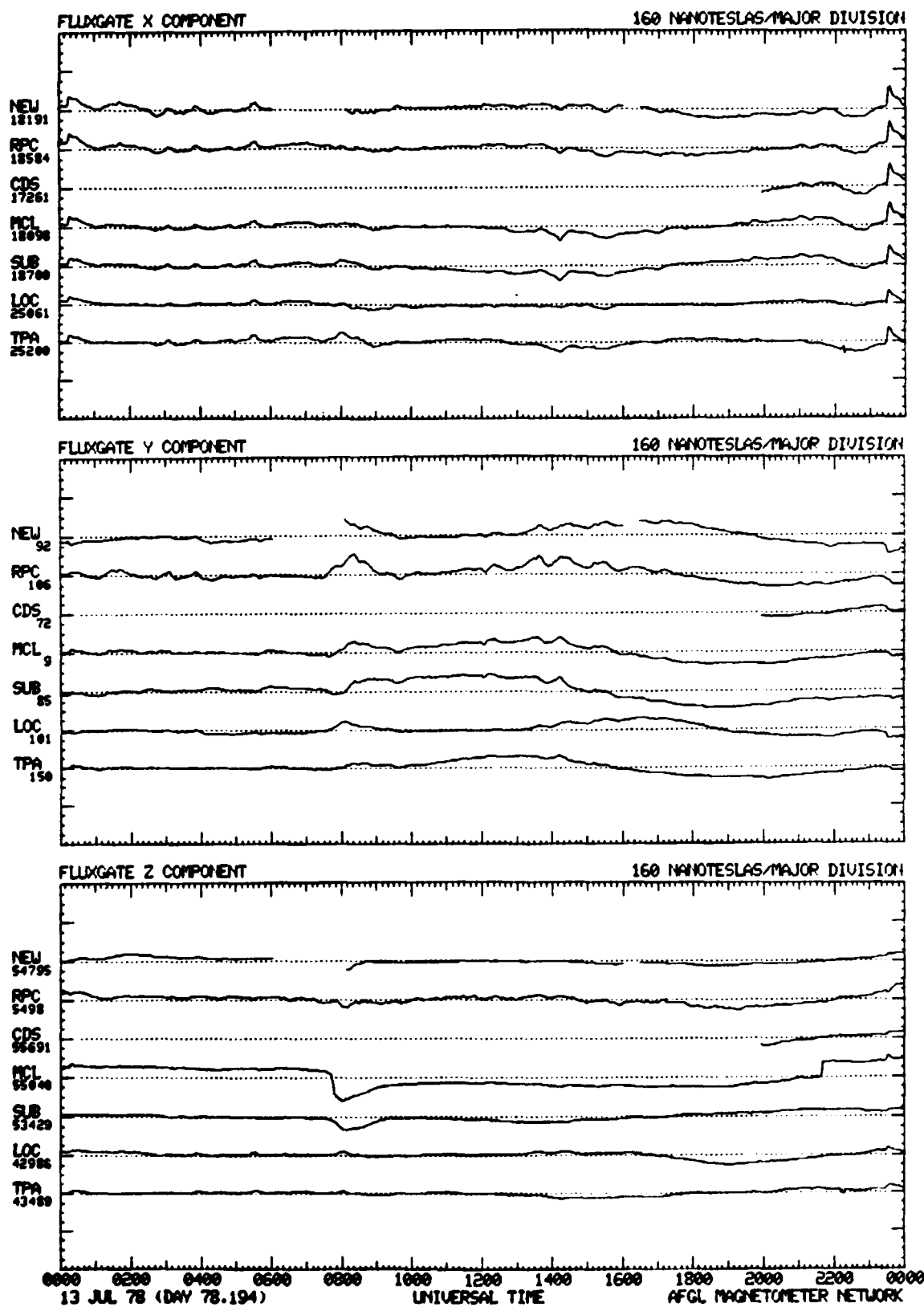








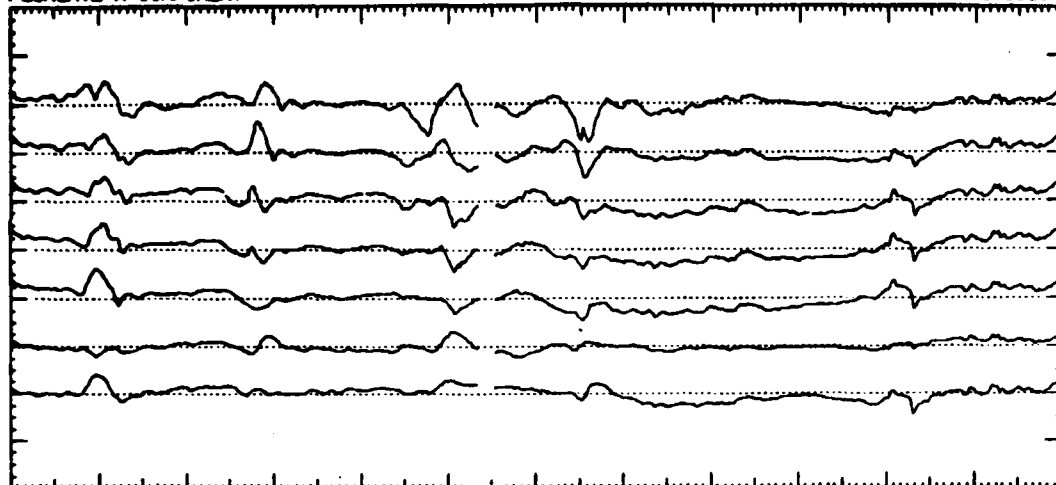




FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

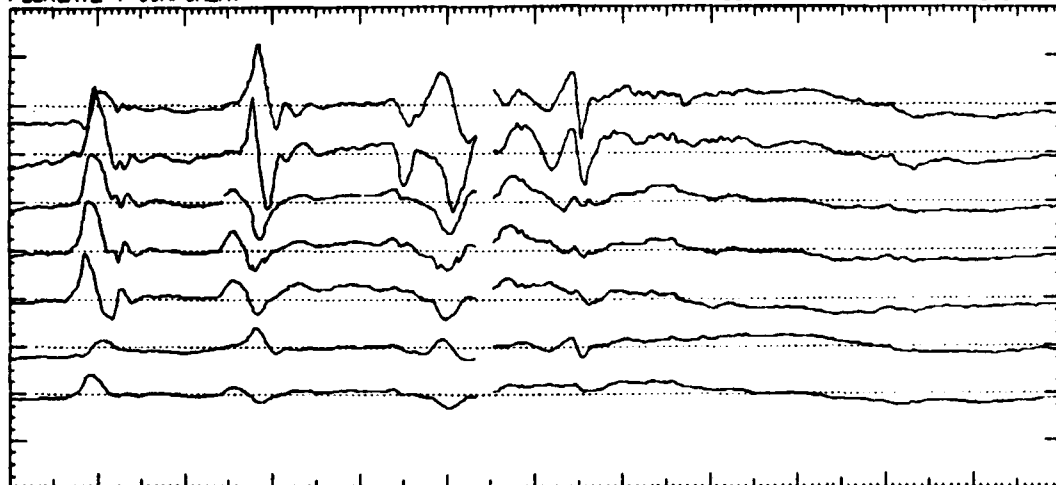
NEU
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RPC
18867
CDS
17228
MCL
18864
SUB
18668
LOC
25046
TPA
25176



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

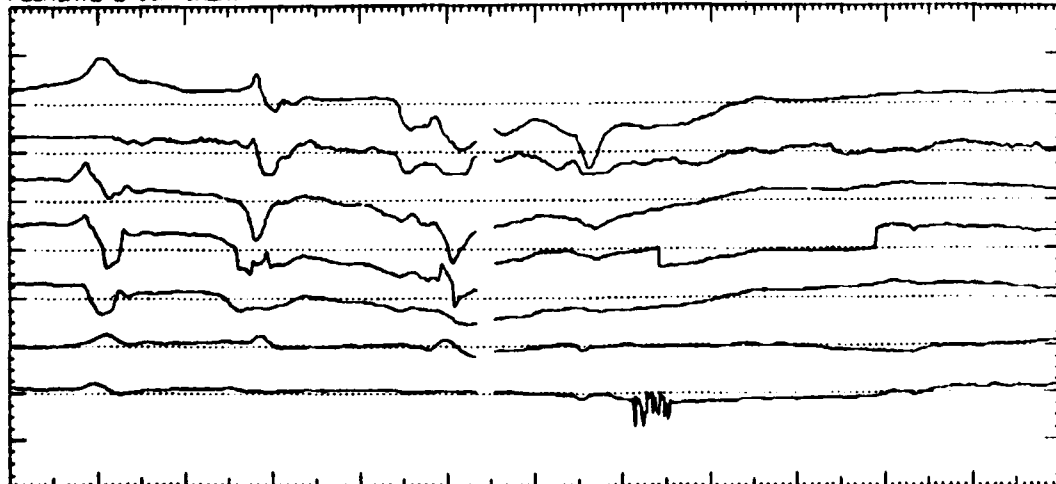
NEU
89
RPC
110
CDS
107
MCL
11
SUB
74
LOC
105
TPA
153



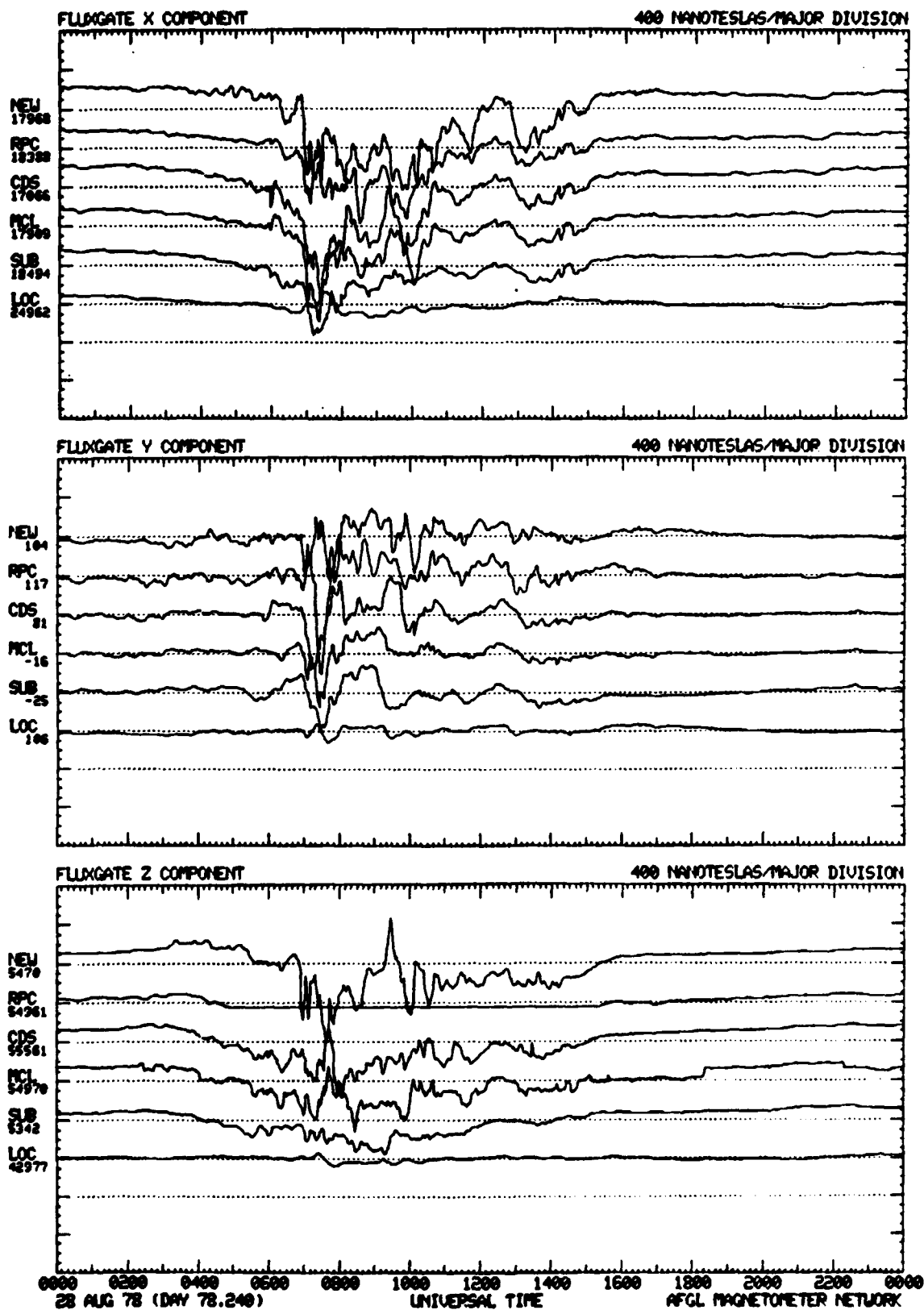
FLUXGATE Z COMPONENT

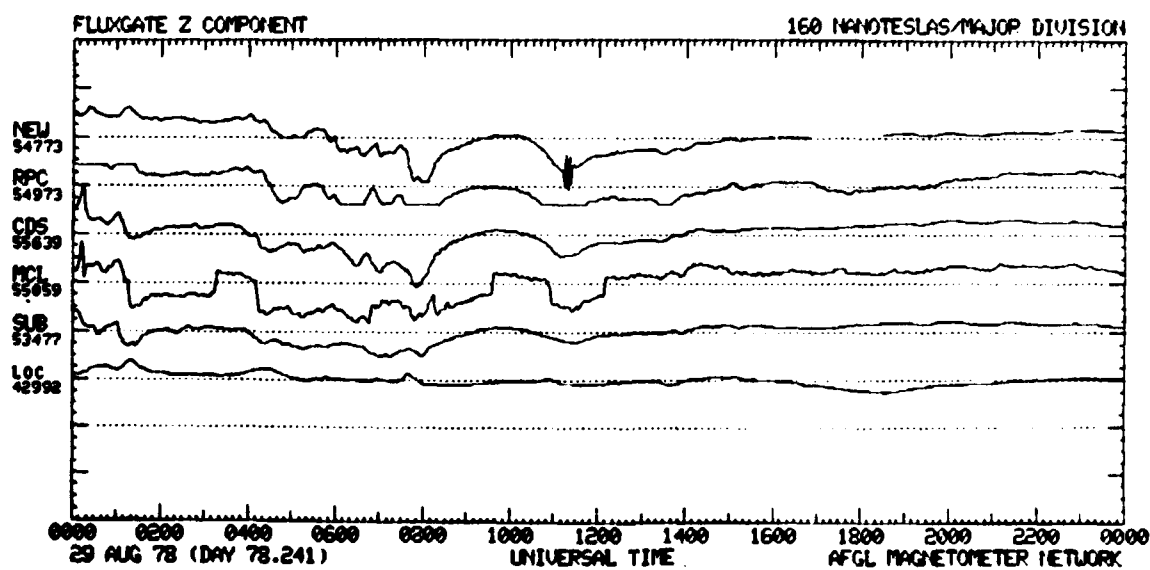
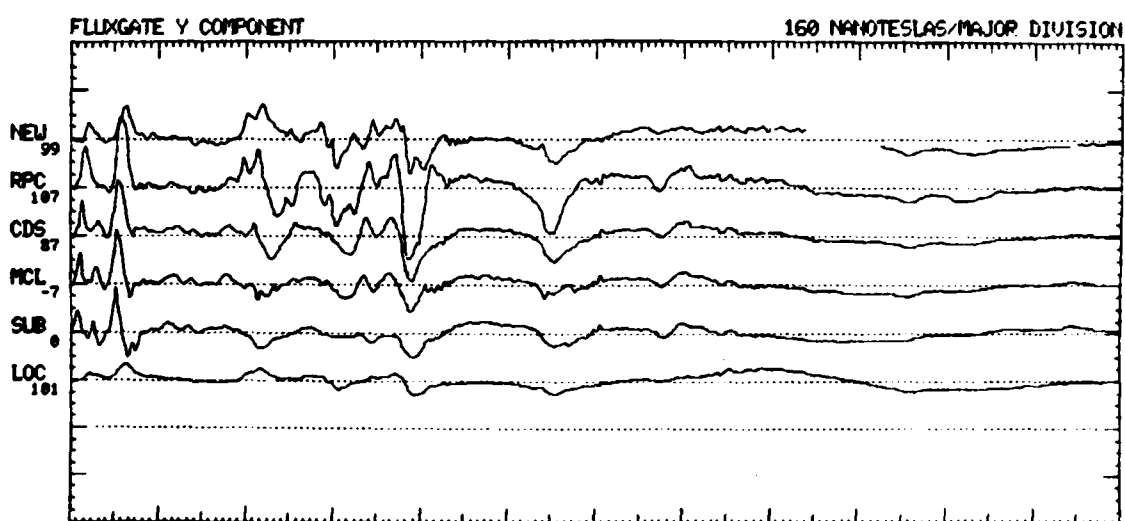
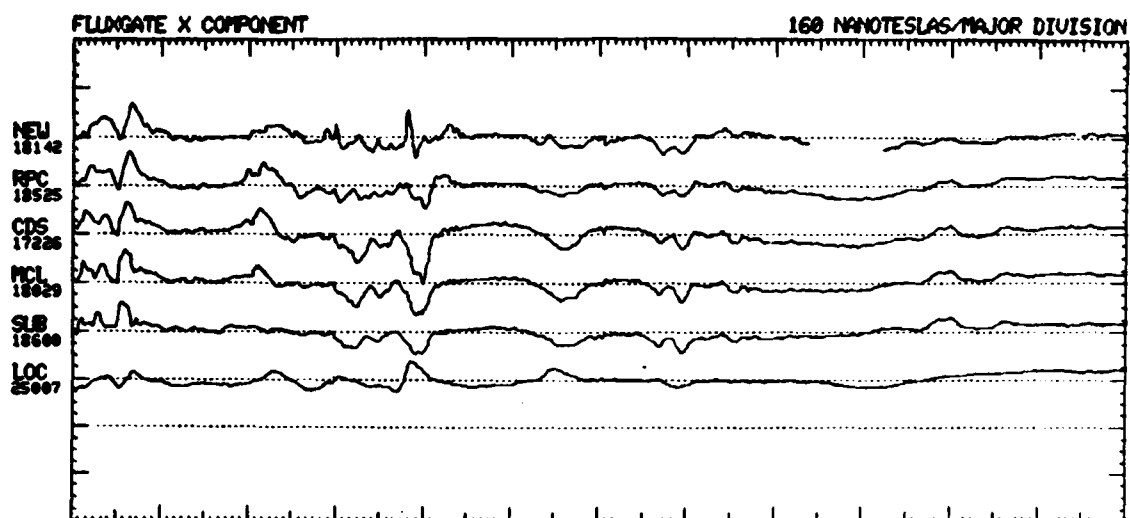
160 NANOTESLAS/MAJOR DIVISION

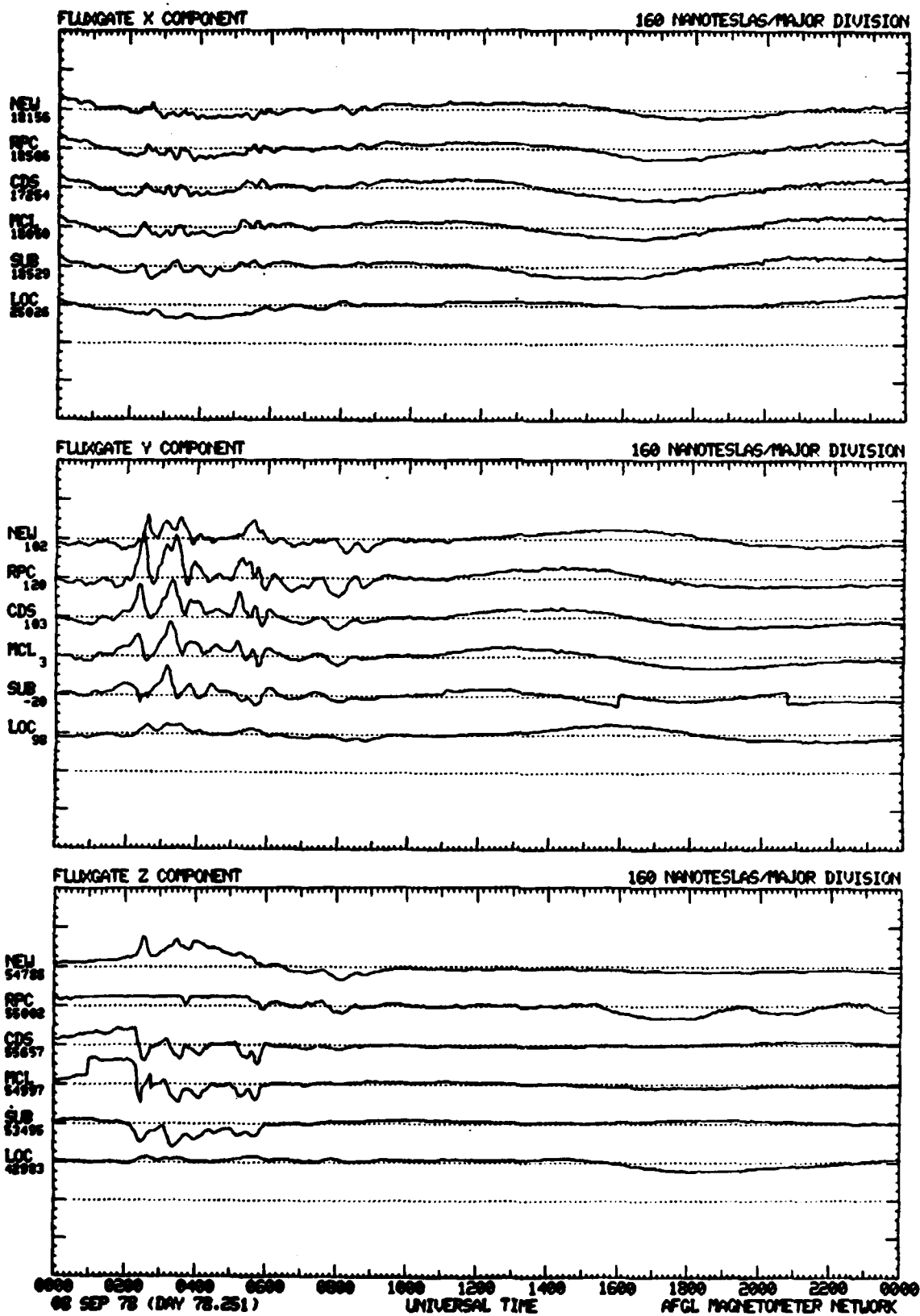
NEU
54778
RPC
54987
CDS
56652
MCL
55938
SUB
53412
LOC
42994
TPA
43485

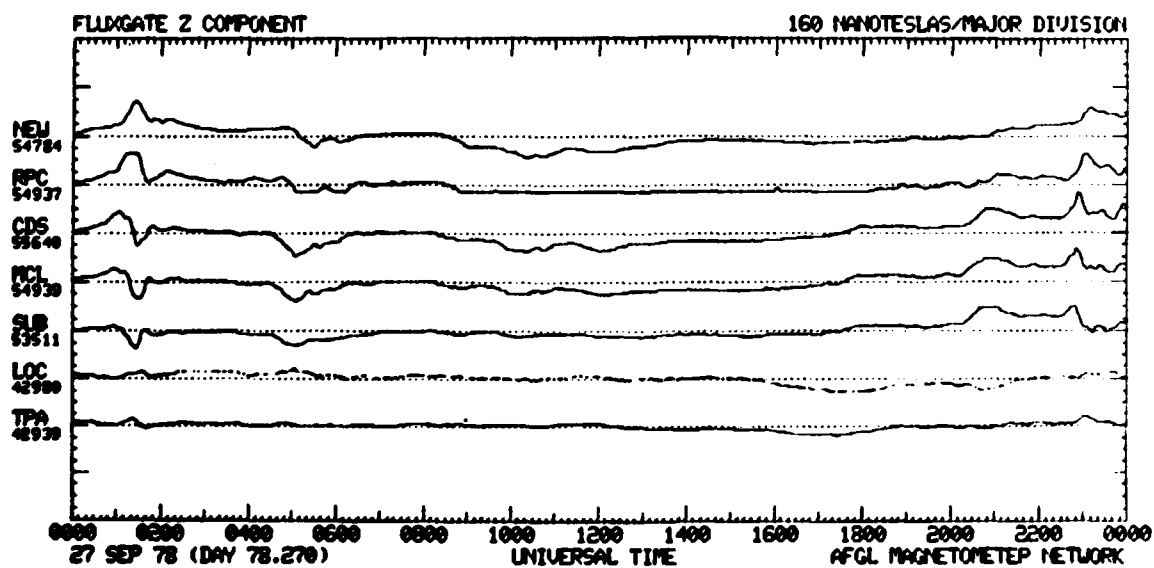
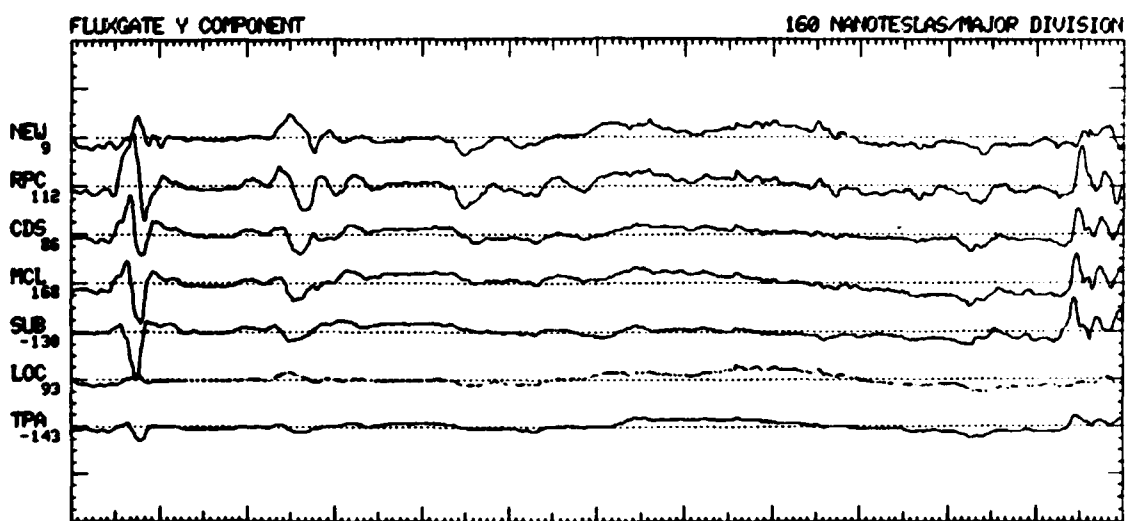
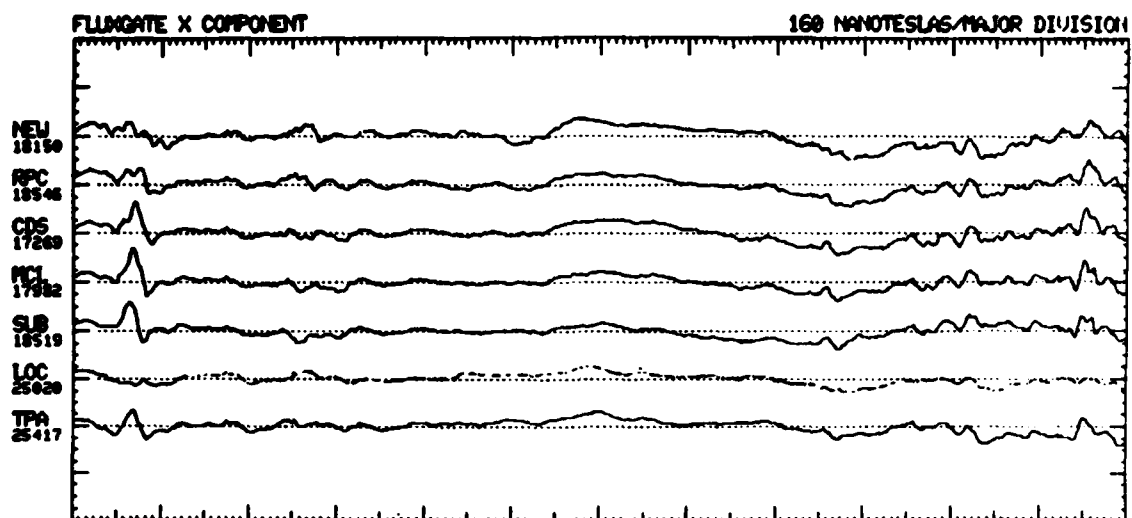


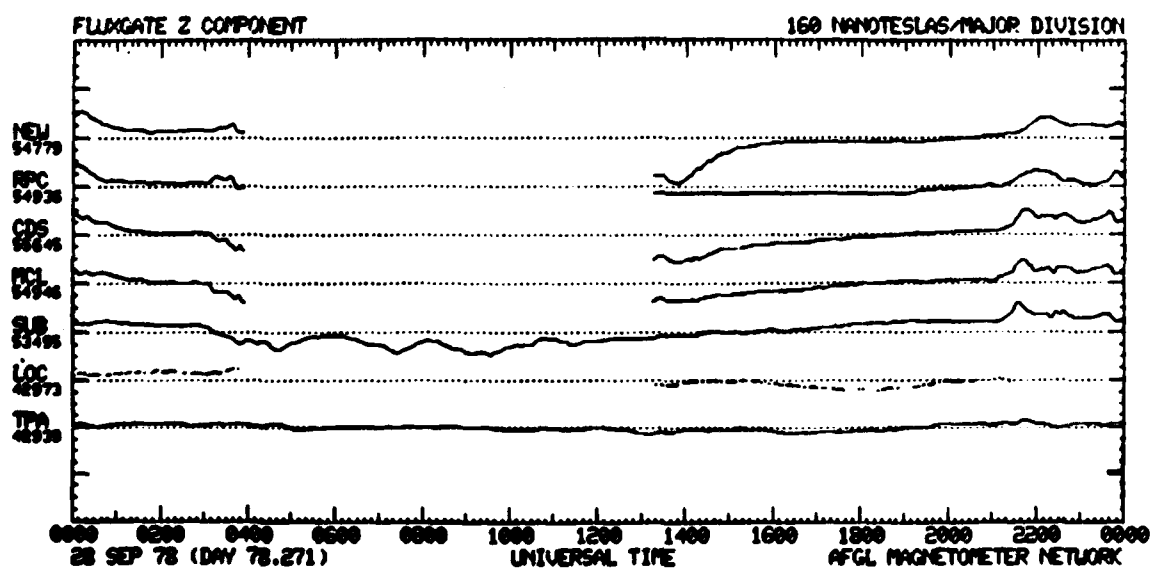
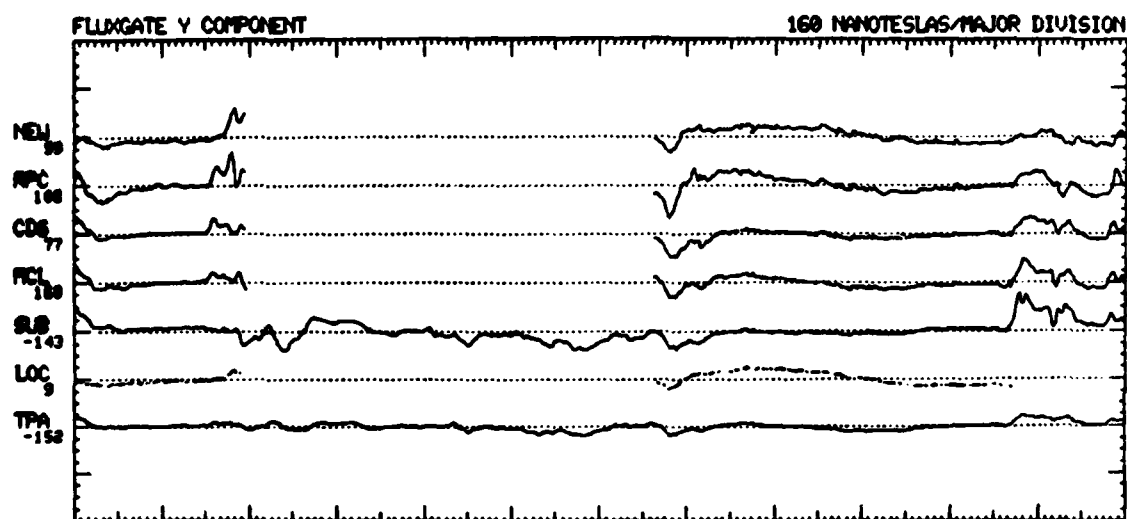
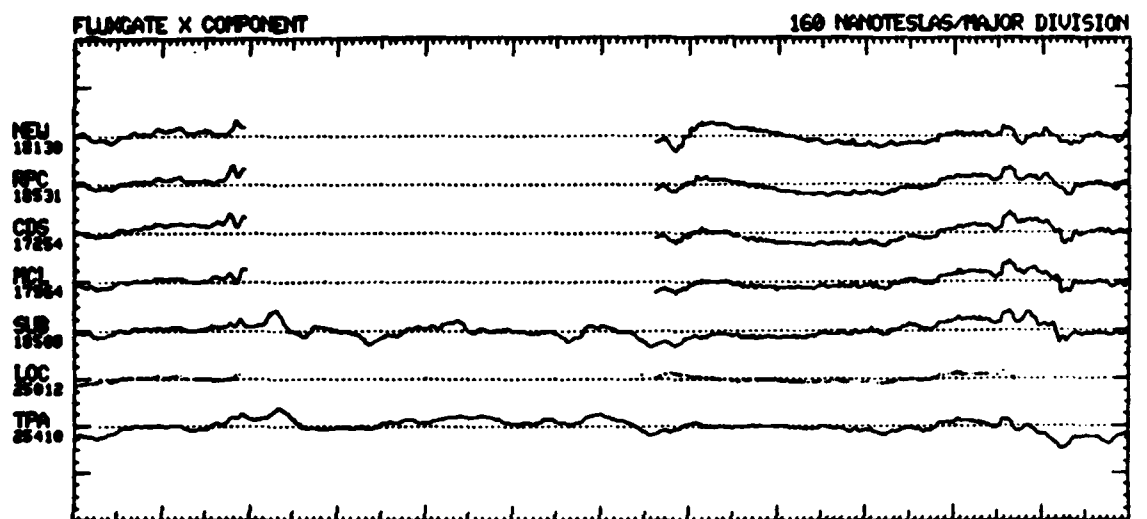
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
14 JUL 78 (DAY 78.195) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

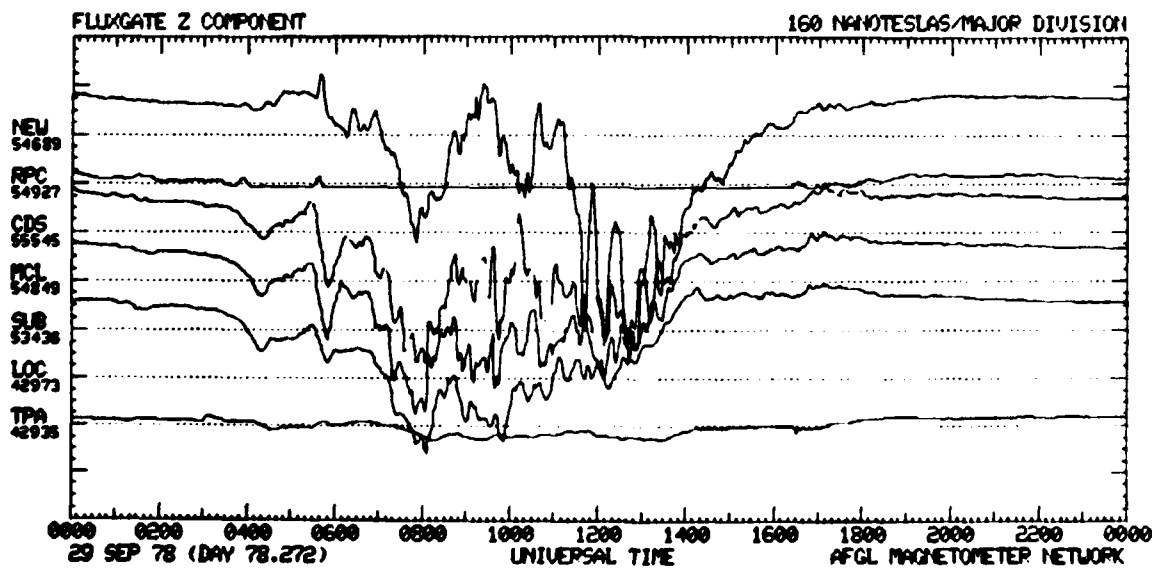
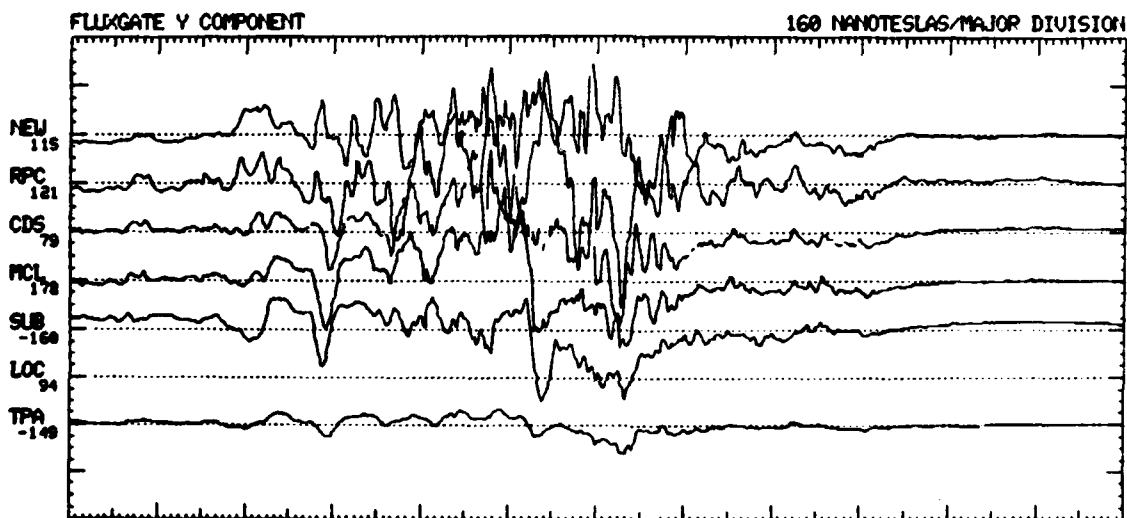
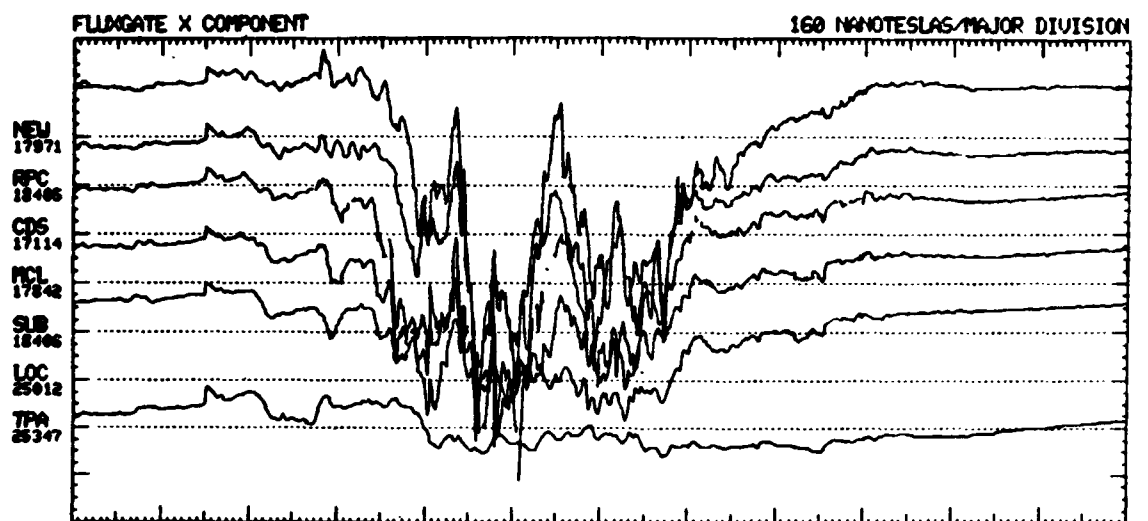


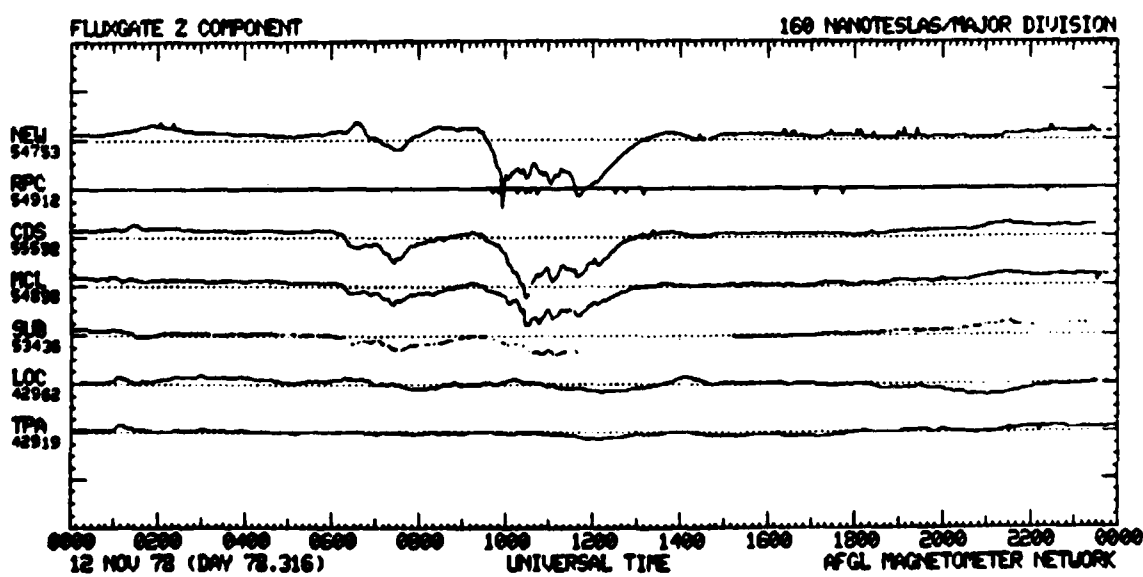
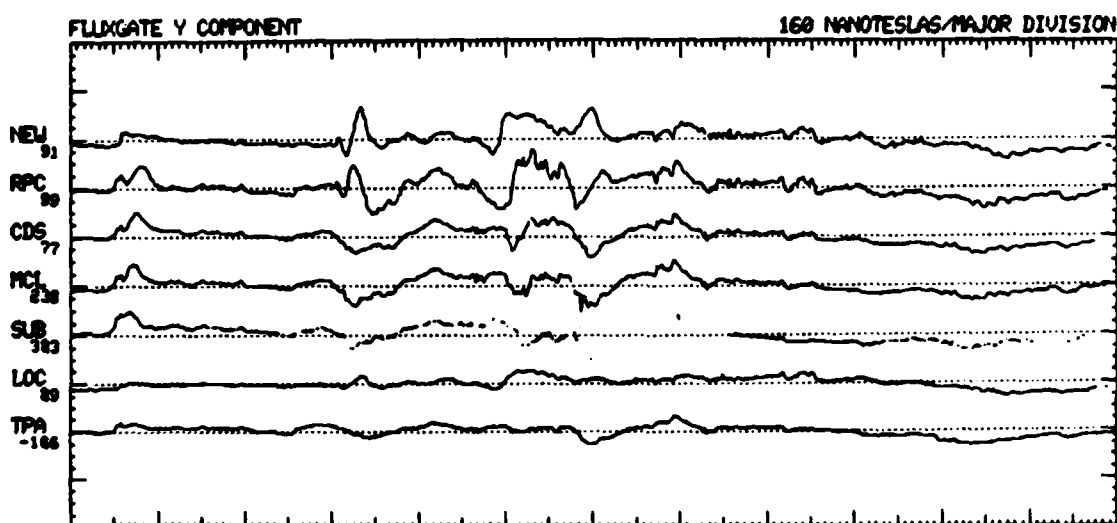
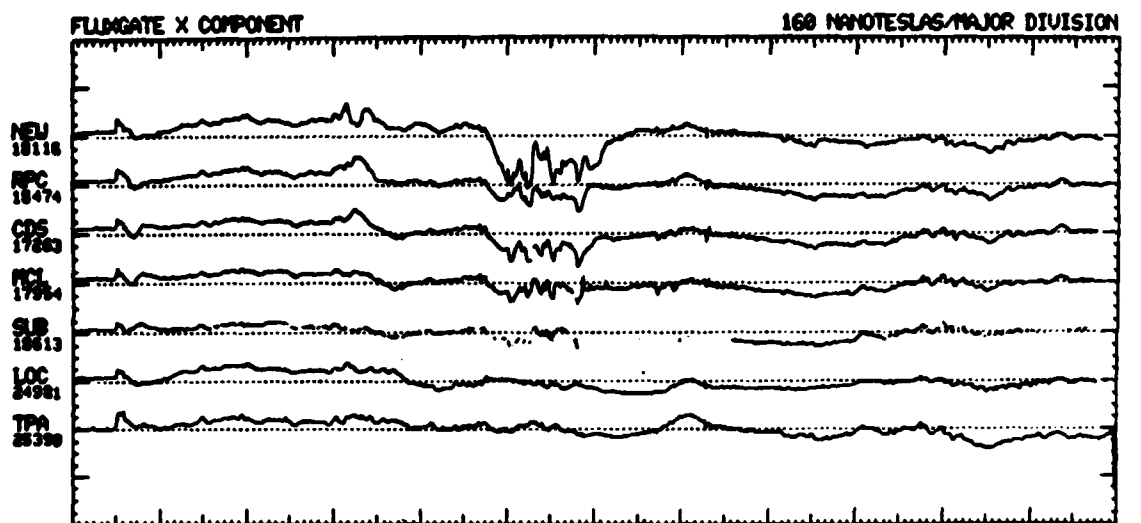


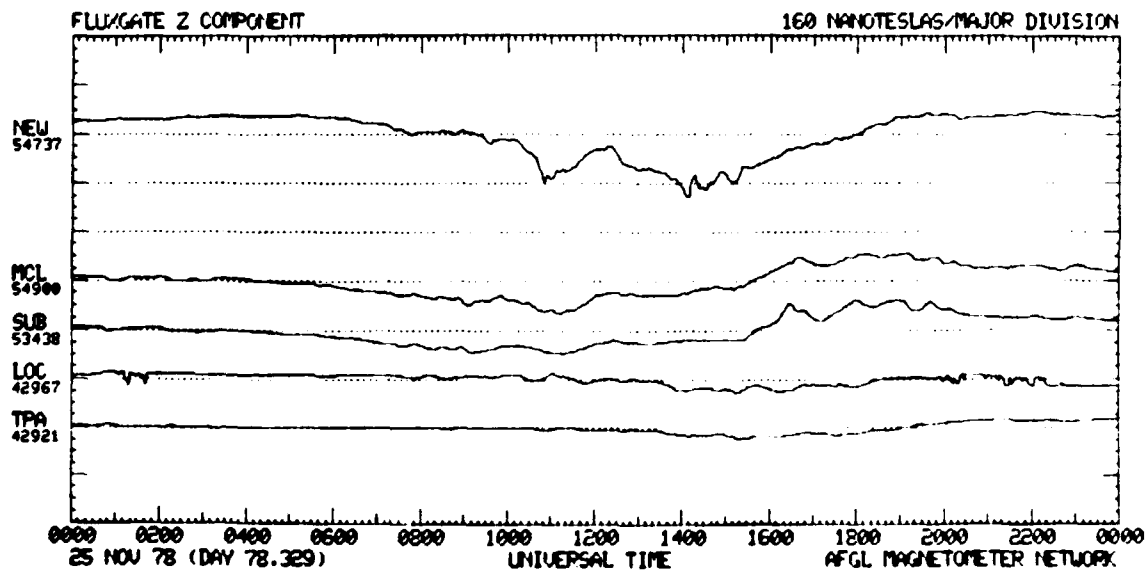
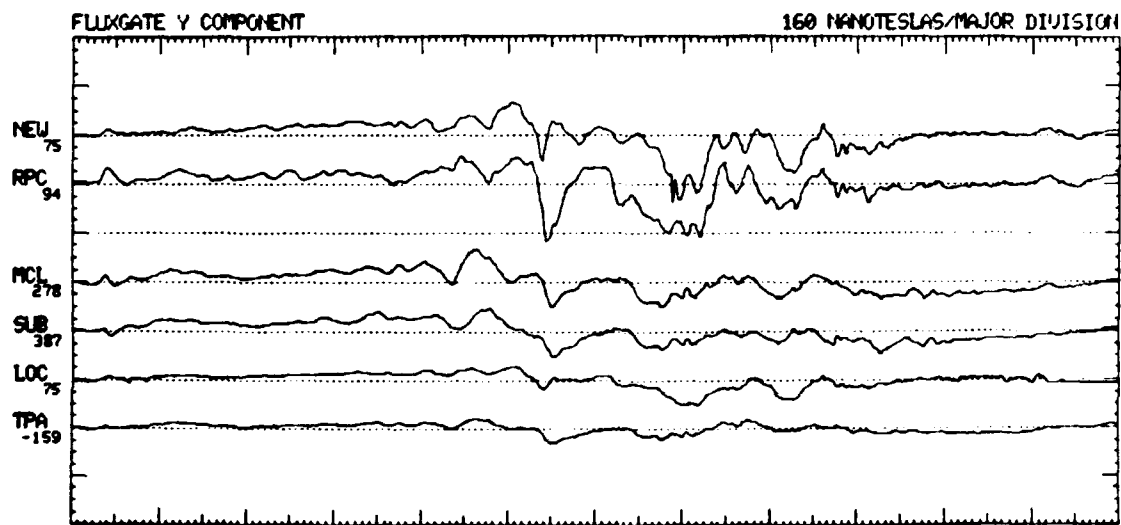
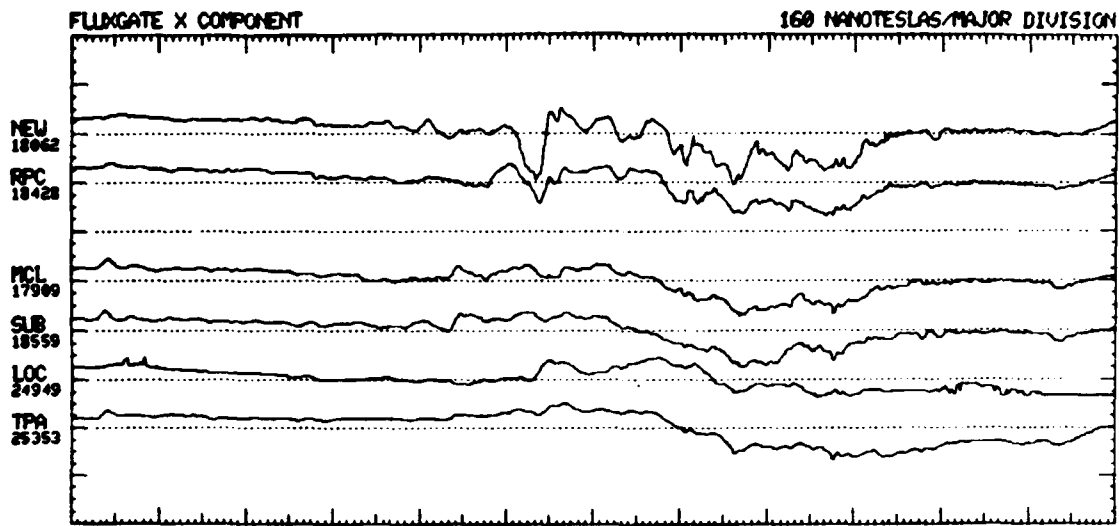


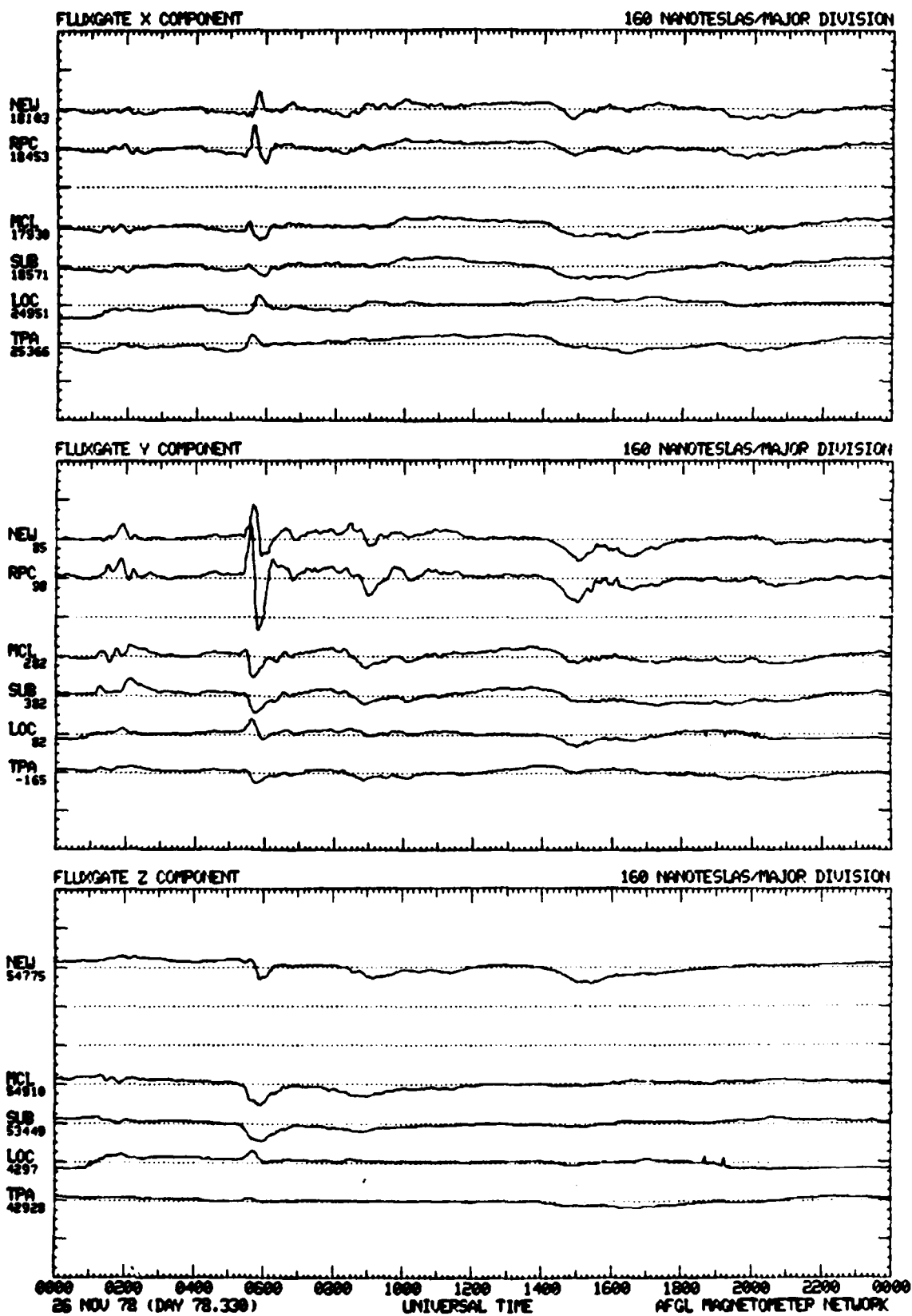


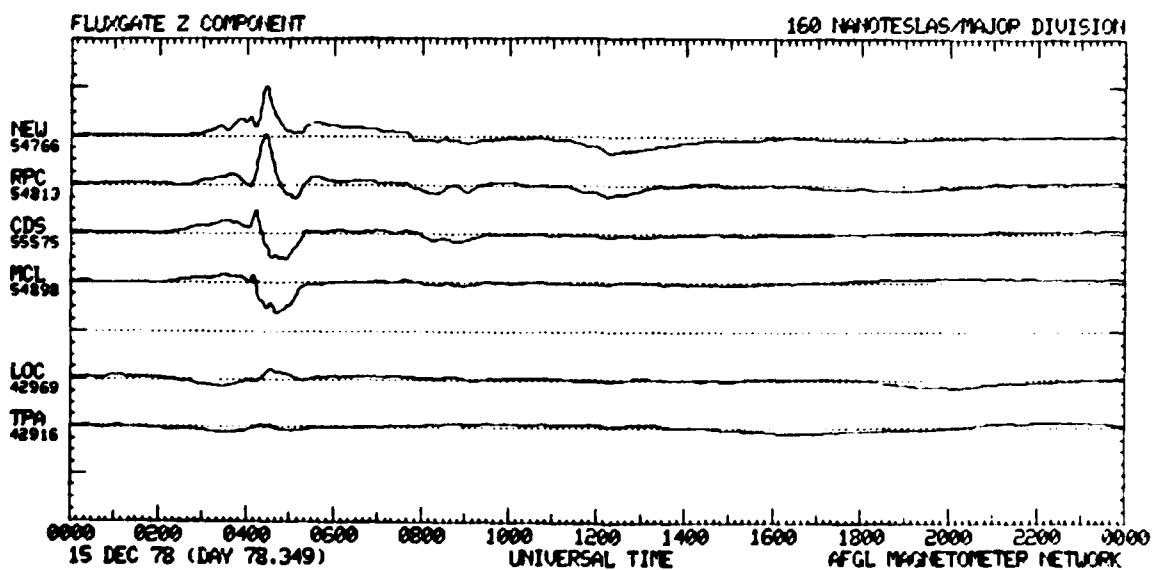
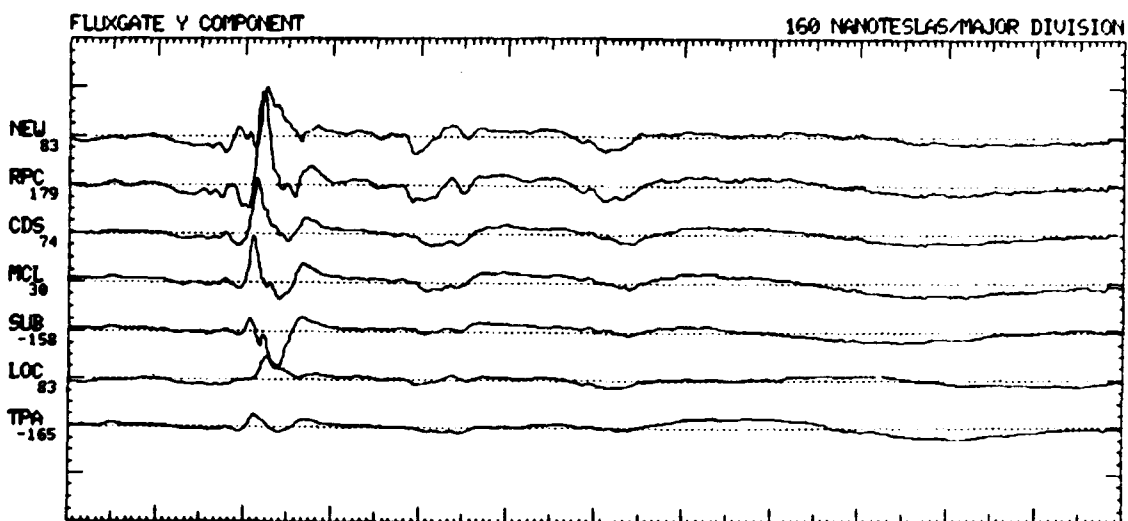
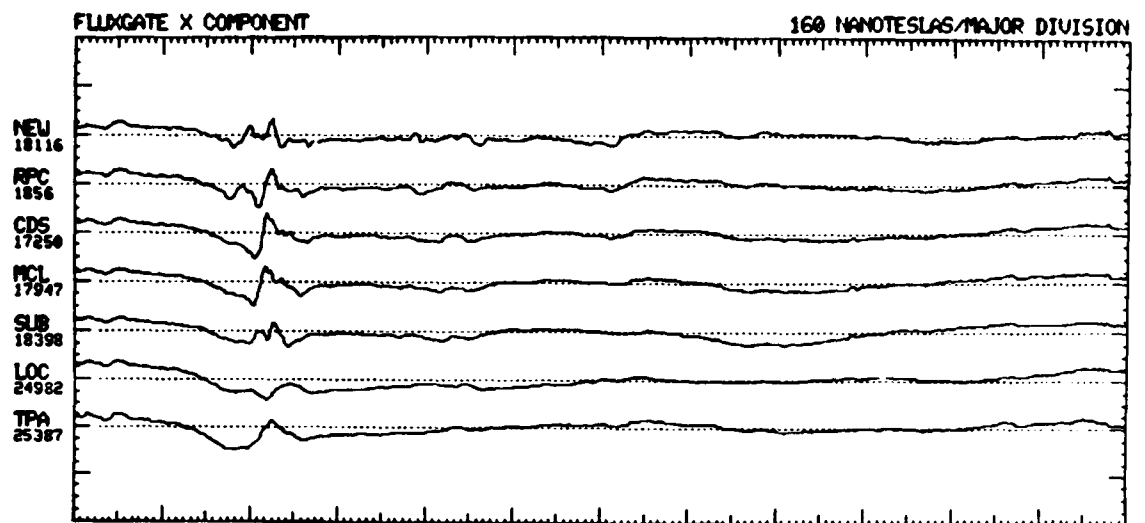












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